



SCHOLARSHIP
CHARACTER
FAITH



USE OF CATALOG

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

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PRESIDENT'S MESSAGE

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 14 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 factorylike, decentralized, impersonal schools” that can be seen across the nation.
- George Fox is one of 20 colleges and universities in the United States named to receive double honors by the John Templeton Foundation: the University is one of 100 selected for its Honor Roll for Character-Building Colleges and the president is one of 50 recognized for outstanding presidential leadership.



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

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

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

H. David Brandt
President





I UNIVERSITY PROFILE



*“Teach all truth as God’s truth,
integrating all fields of learning around the person
and work of Jesus Christ, bringing the
divine revelations through sense, reason, and intuition
to the confirming test of Scripture.”*

*— No.1 on the list of
George Fox University institutional objectives*

OUR HERITAGE

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

In the 110 years since George Fox University's founding, there have been major changes, of course, including the name of the University itself, changed in 1949 because of the many "Pacific" colleges and retitled in honor of the founder of the Friends Church. The name changed again in July 1996 when George Fox College became George Fox University, incorporating Western Evangelical Seminary with 300 students on a campus in Tigard, Oregon.

From only a handful of courses in the 1890s, the University now offers more than 30 undergraduate majors, and graduate programs in psychology, counseling, education, business, ministry, and religion. In all, more than 13,500 students over the years have called this institution their alma mater.

George Fox has grown rapidly in the last two decades — both in reputation and facilities. *U.S. News & World Report* for 14 years has named George Fox "One of America's Best Colleges," in 2001 ranked in the top tier in the new category of Best Universities — Master's, West Region. It also was selected in the "Great Schools at Great Prices" category. National recognition also has come from the John Templeton Foundation, which selected George Fox as one of 100 in its Honor Roll of Character-Building Colleges.

Following a 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, and a \$22 million Legacy Campaign funded the \$7 million Stevens Center, opened 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.

Even as it expands its mission by offering graduate



programs and serving adult learners, George Fox remains committed to providing its 1,400 traditional undergraduate students with a residential campus atmosphere in Newberg. There, learning continues outside the classroom — as well as inside — through a variety of experiences, including music, athletics, clubs and organizations, special events, and Christian ministries.

The Christian atmosphere is a campus priority. With other Christians, the University holds to the historic truths and teachings of Christianity, as outlined in the statement of faith printed on page 9. 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 9 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.

MISSION AND OBJECTIVES

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

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

9. Provide distinctive learning opportunities through continuing education programs and through curriculum enhancements such as off-campus centers, study abroad, honors programs, and other special programs and events.
10. Cultivate awareness, respect, understanding, and appreciation of cultural diversity throughout the University community to provide members of diverse races and cultures an affirming environment that encourages cross-cultural sharing in the context of Christian lifestyle expectations.

STATEMENT OF FAITH

The Trinity

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

God the Father

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

God the Son

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

God the Holy Spirit

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

Salvation

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

The Bible

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

The Christian Life

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

The Church

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

Christian Worship

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

The Future

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

VALUES STATEMENT

The George Fox University community values ...

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

STUDENT OUTCOMES

In any enterprise involving students of varied preparedness, motivation, and discipline, there will be differences in outcomes. Education is realistic and idealistic. It reaches beyond the average, the assured, and the guaranteed. University objectives, indeed the entire catalog, may be seen as sincere intention to provide an educational program of high quality. Accountability to students

is fulfilled by providing qualified teachers, a community with Christian values, and the historical continuity of a Quaker university. The opportunity for personal growth and development is here, yet student initiative and responsibility are vital. The catalog is not an unconditional contract.

ACCREDITATION AND MEMBERSHIPS

George Fox University is accredited by the Northwest Association of Schools and Colleges, by the Oregon Teacher Standards and Practices Commission for the preparation of teachers in specific fields, and by the National Association of Schools of Music. It is approved by the U.S. government and the states of Oregon and Idaho for the education of veterans, and by the U.S. attorney general for the admission of international students.

The University is a member of the national Christian College Consortium, the Council for Christian Colleges and Universities, the Association of American Colleges, the College Scholarship Service, the American Association for Higher Education, the Friends Association for Higher Education, the National Association of Evangelicals, the National Collegiate Athletic Association, the 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.

LOCATIONS

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, Eugene, and other Oregon communities. Its residential undergraduate campus, however, is in Newberg, Ore., in the lower Willamette Valley, on a 75-acre tree-shaded campus in a residential neighborhood. This area offers a variety to meet most interests: a friendly community close (23 miles) to a major metropolitan environment of 1.7 million people, located in the beauty of the Pacific Northwest, with nearby mountain ranges for skiing and easy access to rugged coastal beaches just an hour away.

Oregon — 97,060 square miles of variety — stretches from the Pacific Coast, over the Coast Range, through the fertile Willamette Valley, past the snowcapped Cascades, and into the high desert country of central and eastern Oregon. More than half of the student body call Oregon home. Others come to school in Oregon and decide to make it their new home — despite the fabled rain. Yes, there is rain, and sometimes it falls hard in the valley between the mountain ranges where George Fox University is located. But it is the rain that makes Oregon green and gives it natural beauty. Umbrellas and raincoats do come in handy during the winter months, but when the sun comes out, Oregon is spectacular, and it's worth the wait. Just ask the visitors who make tourism one of the state's largest industries, along with high technology, agriculture, and forest products.

Just a half-hour drive from the campus, metropolitan Portland is George Fox's big-city neighbor. In 2000, Portland topped *Money* magazine's list of "Best Places to Live in the U.S." Oregon's largest city, Portland offers

students, faculty, and staff its Old Town district, a downtown transit mall, the Tom McCall Waterfront Park, numerous art galleries and museums, a number of theatre groups and jazz clubs, and a world-class symphony, ballet, and opera. Other attractions include the Oregon Zoo, the Japanese Garden, the International Rose Test Gardens, and OMSI (the Oregon Museum of Science and Industry). Every June the city holds its Rose Festival, with three parades, a coronation, and 25 days of other events.



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

Despite the numerous Portland advantages, many students prefer the small-town flavor of Newberg. Located on the Willamette River, Newberg has a population of 17,700, with many residents living in Newberg and commuting to Portland for their jobs. Downtown Newberg consists of a variety of stores, shops, and services. Friendly merchants who appreciate the University's students are just a few blocks south of the campus, with most businesses within walking distance. It's a personable town, rich in tradition — former President Herbert Hoover once lived here.

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

NEWBERG CAMPUS FACILITIES

Bound on three sides by a residential area, the George Fox Newberg campus borders Hess Creek canyon, with a natural setting of tall trees, ferns, and wildflowers. The spacious campus has been developed in recent years according to a master plan featuring a campus academic quadrangle; a recreational section with sports center, track complex, and athletic fields; and a living area with major residence halls. Following is a list of facilities corresponding to the campus map:

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.

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.

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

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-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.

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

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

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

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

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

The **Herbert Hoover Academic Building**, built in 1977, houses the Kershner Library and the 160-seat Kershner Lecture Hall, classrooms, and faculty offices. The first floor has offices for business and sociology/social work departments.

The second floor has offices for psychology faculty. A display of Herbert Hoover memorabilia was opened in 1997 on the first floor.

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

The **Media Communication Center**, completed in 1979, houses a television production studio, as well as offices and EFP video equipment for the media communication major. The studio contains a mix of analog and digital equipment for tape-based and nonlinear editing. This facility also is used in the authoring and production of interactive multimedia.

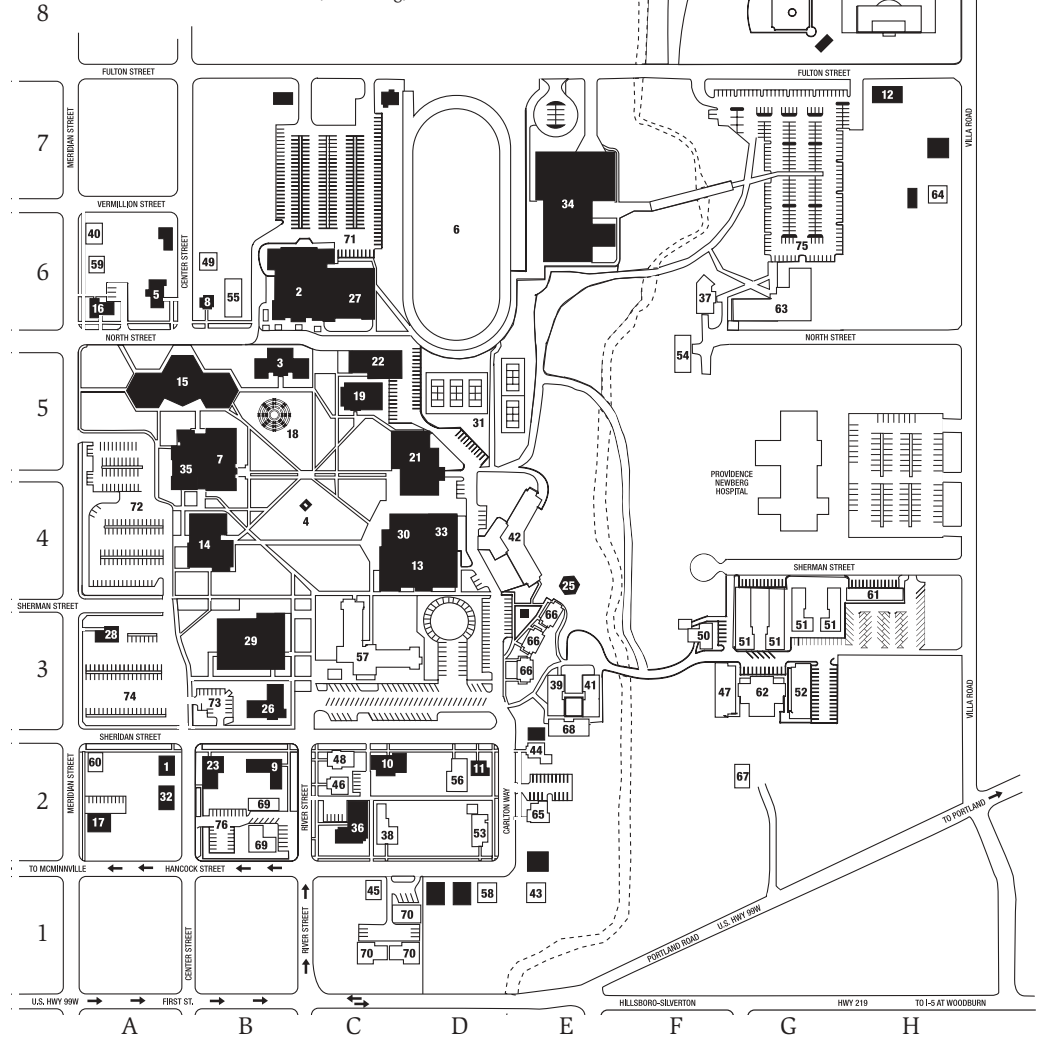
Meridian Street House is at 206 N. Meridian Street. A residence purchased in 1995, it houses the graduate education faculty and staff.

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

George Fox University

NEWBERG CAMPUS
414 N. Meridian St., Newberg, OR 97132

- 1 Armstrong House, A2
- 2 Bauman Chapel/Auditorium, B6
- 3 Brougher Hall, B5
- 4 Centennial Tower, C4
- 5 Center Street House, A6
- 6 Colcord Memorial Field, D6
- 7 Edwards-Holman Science Center, B5
- 8 Event Services Office, B6
- 9 Financial Affairs Office, B2
- 10 Foxhole, C2
- 11 Fry House, D2
- 12 Fulton Street House, H7
- 13 Heacock Commons, C4
- 14 Hoover Academic Building, B4
- 15 Lemmons Center, B5
- 16 Media Communication Center, A6
- 17 Meridian Street House, A2
- 18 Virginia Millage Memorial Rose Garden, B5
- 19 Minthorn Hall, C5
- 20 Morse Athletic Fields, G8
- 21 Murdock Learning Resource Center, C5
- 22 North Street Annex, C5
- 23 Pennington House, B2
- 24 Plant Services Building, G8
- 25 Prayer Chapel, E4
- 26 President's Office/Academic Affairs Office, B3
- 27 Ross Center, C6
- 28 Security Services, A3
- 29 Stevens Center, B3
- 30 Student Union Building, C4
- 31 Tennis Courts, D5
- 32 University Fund Office, A2
- 33 University Store, D4
- 34 Wheeler Sports Center, E7
- 35 Wood-Mar Hall, B5
- 36 Woodward House, C2



Student Housing

- 37 Barclay House, F6
- 38 Beals House, C2
- 39 Beebe Residence Hall, E3
- 40 Campbell House, A6
- 41 Carey Residence Hall, E3
- 42 Edwards Residence Hall, D4
- 43 Fell House, E1
- 44 Gulley House, E2
- 45 Hancock Street House, C1
- 46 Hester House, C2
- 47 Hobson Residence Hall, F3

- 48 Hoskins House, C2
- 49 Kelsey House, B6
- 50 Kershner House, F3
- 51 Lewis Apartments, G3
- 52 Macy Residence Hall, G3
- 53 McGrew House, D2
- 54 Munn House, F6
- 55 Newlin Apartments, B6
- 56 Parker House, D2
- 57 Pennington Residence Hall, C3
- 58 Riley House, D1

- 59 Schomburg House, A6
- 60 Sheridan Street House, A2
- 61 Sherman Arms Apartments, H4
- 62 Sutton Residence Hall, G3
- 63 University Residence Hall, G6
- 64 Villa Road House, H7
- 65 Weesner House, E2
- 66 Weesner Village, E3
- 67 Wilder House, F2
- 68 Willcuts Residence Hall, E3
- 69 Winters Apartments, B2

Parking

- 71 Bauman/Ross Center Parking Lot, C7
- 72 Hoover/Wood-Mar Parking Lot, A4
- 73 President's/Academic Affairs Office Parking Lot, B3
- 74 Stevens Center Parking Lot, A3
- 75 Wheeler Center Parking Lot, G7
- 76 Winters Parking Lot, B2

Abundant curbside parking is also available throughout the area.

George Fox alumna and volunteer leader.

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

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

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

The **North Street Annex**, opened in 1998, contains a ceramics studio and lab, and the main campus post office and print room.

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

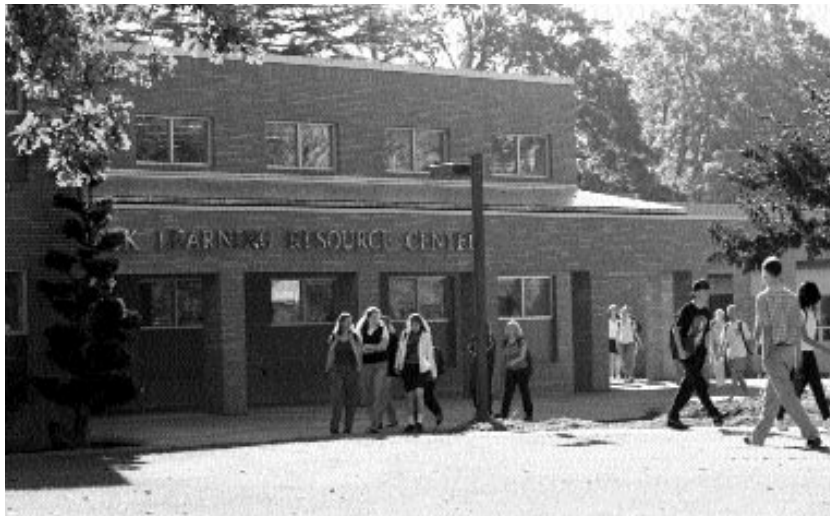
The **Plant Services Building**, opened in 1998, contains work areas, storage, and offices for custodial, maintenance, and grounds personnel.

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

The **President's/Academic Affairs Office**, opened in 1991, is a remodeled residence at Sheridan and River streets, redesigned as the administrative center for the Office of the President. It also houses the Office of Academic Affairs.

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

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



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

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

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

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

The **University Store** is located in the SUB.

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

Wood-Mar Hall, constructed in 1911, houses Wood-Mar Auditorium, seating 250, on the third floor. The first two floors are under renovation for expansion of the engineering department and for administrative offices.

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.

Descriptions of student housing are included in the Student Life section on page 21.



II

STUDENT LIFE



*“Each one of us has something powerful
that will enrich the lives of others.
My encouragement to each of us is to
listen, learn, and grow.”*

— Brad Lau, Vice President for Student Life

OFFICE OF STUDENT LIFE

Located in the Stevens Center, this office is responsible for the organization and programming of residence life and housing, student government, student activities, career services, 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.

STANDARDS OF CONDUCT

When enrolling at George Fox University, students agree to respect the expectations and appointed leadership of the institution. All expectations are designed to allow the fullest liberty consistent with efficient work, while at the same time promoting the welfare of the entire campus community.

The University admits students with the understanding they will comply with these expectations in every respect and conduct themselves as responsible citizens. All students are expected to maintain written standards of behavior, which include conforming to state and local laws.

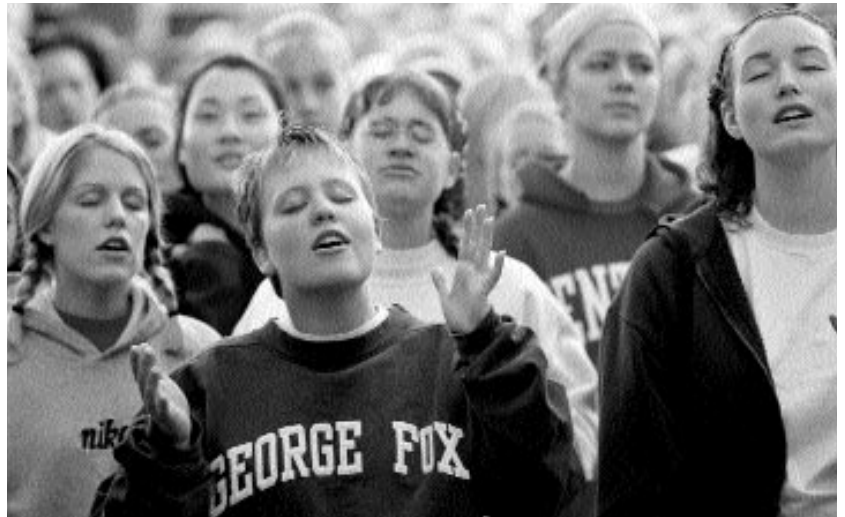
Any student whose behavior is dishonest, destructive, unethical, or immoral, or whose conduct is detrimental to the total welfare of the community, shall be subject to disciplinary action that may result in suspension or dismissal.

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 Office of Student Life. A student's participation in off-campus programs and other activities may be jeopardized as a result of the change in status.

SPIRITUAL FORMATION REQUIREMENTS AND CAMPUS MINISTRIES

Receiving a well-rounded education means growing intellectually, emotionally, and spiritually, and creating a strong foundation on which lives, hopes, and dreams can be built. Helping facilitate this kind of growth is the focus of the Office of Campus Ministries and its Spiritual



Formation Program, which is made up of three primary components: 1) praise and worship, 2) study, and 3) ministry/service.

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.

STUDENT ACTIVITIES AND ORGANIZATIONS

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

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

ATHLETICS

George Fox University has excelled in athletics during recent years. Intercollegiate sports for men include soccer, cross country, basketball, baseball, tennis, and track and field. Women's intercollegiate sports include soccer, cross country, volleyball, basketball, softball, tennis, and track and field.

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

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

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

- a. Place special importance on the impact of athletics on the participants rather than on the spectators and place greater emphasis on the internal constituency (students, alumni, and institutional personnel) than on the general public and its entertainment needs;

- b. Award no athletically related financial aid to any student;
- c. Encourage the development of sportsmanship and positive societal attitudes in all constituents, including student-athletes, coaches, administrative personnel, and spectators;
- d. Encourage participation by maximizing the number and variety of athletics opportunities for their students;
- e. Assure that the actions of coaches and administrators exhibit fairness, openness, and honesty in their relationships with student-athletes;
- f. Assure that athletics participants are not treated differently from other members of the student body;
- g. Assure that athletics programs support the institution's educational mission by financing, staffing, and controlling the programs through the same general procedures as other departments of the institution;
- h. Provide equitable athletics opportunities for males and females, and give equal emphasis to men's and women's sports;
- i. Give primary emphasis to regional in-season competition and conference championships;
- j. Support student-athletes in their efforts to reach high levels of athletics performance, which may include opportunities for participation in national championships, by providing all teams with adequate facilities, competent coaching, and appropriate competitive opportunities.

INTRAMURALS

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

STUDENT GOVERNMENT

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

MEDIA

Student publications include a newspaper, *The Crescent*; the yearbook, *L'Ami*; a photo directory, the *Bruin Directory*; and *The Wineskin*, the literary publication. Student editors direct their staffs in the selection and preparation of materials for these publications. The student radio station, KFOX, broadcasts campus news and music in a contemporary Christian format.

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

Part of the Department of Fine Arts, George Fox's theatre program 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.

"ADVANCE" LEADERSHIP DEVELOPMENT PROGRAM

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

RESIDENTIAL LIFE

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

Full-time students must occupy University-owned housing unless 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 Office of Student Life (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, with a total of approximately 1,000 students living in campus housing. Housing administration is handled by the associate dean of students in the Office of Student Life. Campus housing is furnished with beds, mattresses, and other essential furnishings. Students are expected to provide their own bedding, towels, etc. Card-operated laundry facilities are provided for each residence.

Specified hours have been established for coed visitation. Additional residential housing and lifestyle expectations are included in the *Undergraduate Student Handbook* provided for each 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 check-out from a campus housing unit is complete only with this inspection, after the key is turned in, and after the residence life staff has signed off on all paperwork.

Residence hall rooms on the first floor of Pennington 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 Enrollment Services and the Office of Student

Life well in advance of attendance so that specific attention can be made to assist in providing living arrangements and learning accommodations.



STUDENT HOUSING

Refer to the map on page 13 for locations of the following student-housing facilities:

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.

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.

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, the top floor for women, the bottom floor for men. It is the first unit of a three-building minidorm complex situated in the Hess Creek canyon.

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.

Fell House is located at 1216 Hancock Street. It was purchased in 2000 and houses nine students.

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

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

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

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

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

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

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

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

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

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

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

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

Pennington Residence Hall, built in 1962 and renovated in 1994, is a residence hall for 101 students and a resident area coordinator's apartment, with alternate-wing housing for men and women.

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

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

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

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

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

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

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

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

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

Willcuts Residence Hall, opened in 1990, is the second unit of a three-building minidorm complex in the Hess Creek greenway. It houses 40 upper-division students in 10 two-room suites, men on the top floor, women on the two lower floors.

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

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

FOOD SERVICE

All resident students are required to participate in a University meal plan, with the exception of students who have been approved for exemption. The University offers three meal plans for all students eating in Heacock Commons. A charge is made for guests. Commuting students may purchase a declining balance plan through the food services office.

Commuting students also may purchase one of the meal plans, and must indicate their intent to do so at the time of registration.

Meal Plan Options

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

Food service begins during freshman orientation in the fall semester and ends on the last Saturday of the semester. Service begins again the Sunday evening prior

to spring semester and concludes on the last Saturday of the semester, with the exception of spring vacation. The food service will not operate during this time.

Students may petition the dean of students for the possibility of having the food service requirement waived. Meal plan exemptions are made only for special medical conditions, and only for those whose dietary needs cannot be accommodated by George Fox University's food service. A checklist for exemption procedures and guidelines is available in the Office of Student Life. All petitions are due at the end of the second full week of each semester.



CAREER SERVICES

Located on the third floor of the Stevens Center, this office 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 Etiquette Dinners, the Internship Fair, the Oregon Liberal Arts Placement Consortium (OLAPC) 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. Staff includes the director, associate director, secretary, and intern.

HEALTH AND COUNSELING SERVICES

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

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

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

INTERNATIONAL STUDENT SERVICES

The director of international student services, serving as the advisor for international students, helps facilitate the meeting of diverse cultures in the George Fox University community. The University recognizes that international students bring with them unique needs as well as welcomed contributions. The director seeks to help students adjust to their new surroundings and to help the campus community develop a sensitivity to their needs. The director also encourages their participation in the academic and social life of the University and in the exploration of the surrounding American culture, as well as assists students in complying with INS regulations. The advisor is the international student's friend and advocate.

MULTICULTURAL SERVICES

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 embrace this 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

Security Services at George Fox University assists students, staff, faculty, and guests in our campus community. Officers provide safe escorts and monitor activity on the campus. Maps of the campus as well as visitor passes and information are available in the Security Services office located at Meridian and Sherman streets, the campus's main entrance. In addition, Security Services oversees the registration of cars parked on campus. 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 Security Services and pay a non-refundable parking fee (see page 145) to park on campus. Failure to do so will result in fines. Office hours are Monday-Friday, 8 a.m. to 4 p.m. However, security is available by phone 24 hours a day, seven days a week, by calling 503-554-2090.





III

ACADEMIC PROGRAMS



*“Thank God that I can read,
that I have truly touched the minds
of other men.”*

— Walter Tevis

GENERAL EDUCATION REQUIREMENTS

To complete an undergraduate academic program at George Fox University, a student must select a major 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.

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

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

Additionally, all first-semester freshman students who matriculate in the fall are required to enroll for GEED 130 Freshman Seminar.

Bible and Religion

1. BIBL 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):

RELI 470 Christian Classics

RELI 480 Spiritual Formation

RELI 490 Contemporary Religious Life

2 hours

3. RELI 260 History and Doctrine of Friends. Required of all Friends students. One of the following elective courses in Bible or religion is required of all other students: BIBL 240 Wisdom Literature (prerequisite: BIBL 101 recommended)

BIBL 250 Psalms (prerequisite: BIBL 101 recommended)

BIBL 260 Life of Christ (prerequisite: BIBL 102 recommended)

BIBL 270 Writings of John (prerequisite: BIBL 102 recommended)

BIBL 310 Old Testament History (prerequisite: BIBL 101)

BIBL 330 Prophetic Writings (prerequisite: BIBL 101)

BIBL 340 Between the Testaments (prerequisite: BIBL 101, 102)



BIBL 385 Selected Bible Topics (prerequisite: BIBL 101, 102, or permission)

BIBL 390 Biblical Basis for Peacemaking (prerequisite: BIBL 101)

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

BIBL 480 General Epistles (prerequisite: BIBL 102)

RELI 250 Great Moments/Key Persons in Christianity

RELI 270 Doctrine of _____

RELI 380 Christian Beliefs

RELI 401/402 Christianity in History

2 hours

4. Transfer students with junior standing (62 semester hours) who have not taken BIBL 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. WRIT 110 Freshman Composition. WRIT 110 may be waived by a verbal SAT score of 670 or above.

3 hours

2. Choose one of the following:
 COMM 100 Introduction to Communication
 THEA 120 Introduction to Acting
 THEA 220 Oral Interpretation of Literature

3 hours

Total: 6 hours

Health and Human Performance

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

1. Human performance activity or adapted activity classes. Limit of two semesters of any one activity.

2. A health course from the following list will satisfy a maximum of one hour of the requirement. The two remaining hours of the requirement must be met through activity courses.

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

3. Up to 2 hours may be waived upon successful completion of proficiency tests in selected areas. A current Red Cross Lifeguarding or Water Safety Instruction certificate will waive 1 hour without further examination.

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

5. Any professional activity class meets 1 hour of the requirement. By permission only.

6. Military service may waive 2 semester credits.

Total: 3 hours

Humanities

Choose 14-15 semester hours, taking five courses from the options listed below, including at least one course and no more than two courses from each of the following areas: fine arts, history, and literature.

1. Fine Arts

If a student chooses to take two courses in fine arts to fulfill the humanities general education requirement, one must be art and one must be music.

- ARTS 216 Art History Survey to 1600
- ARTS 217 Art History Survey from 1600
- ARTS 111 Drawing
- MUSI 100 Music Fundamentals
- MUSI 110 Understanding Jazz
- MUSI 111, 112 Introduction to Music Literature
- MUSI 120 The World of Music
- MUSI 210 Keyboard Literature

2. History

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

3. Literature

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

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

4. Philosophy (choose a maximum of one course)

- PHIL 210 Introduction to Philosophy
- PHIL 230 Ethics

Total: 14-15 hours

Sciences

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

1. Mathematics

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

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

2. Natural Science

BIOL 100 Foundations of Biology
 BIOL 101 General Biology
 BIOL 102 General Biology
 BIOL 221 Human Anatomy and Physiology
 BIOL 222 Human Anatomy and Physiology
 CHEM 100 Chemistry of Life
 CHEM 110 Chemistry and Our Environment
 CHEM 151 General, Organic, and Biological Chemistry
 CHEM 152 General, Organic, and Biological Chemistry
 CHEM 211 General Chemistry
 CHEM 212 General Chemistry
 GSCI 120 Foundations of Earth Science
 GSCI 130 Fundamentals of Geology
 PHYS 150 Physics of Everyday Life
 PHYS 201 General Physics
 PHYS 202 General Physics

3. Social Science

PSYC 150 General Psychology
 SOCI 150 Principles of Sociology
 ECON 201* Principles of Microeconomics
 ECON 202* Principles of Macroeconomics
 PSCI 150 Introduction to Political Science

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

Total: 18 hours

Globalization

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

RELI 330 World Christian Movement
 RELI 360 Cross-Cultural Outreach
 RELI 440 World Religions

GREK 202 Hellenistic Greek (second semester)
 SOCI 310 Cultural Anthropology
 SPAN 102 First-Year Spanish (second semester)
 SPAN 201, 202 Second-Year Spanish
 SPAN 301, 302 Third-Year Spanish
 FREN 102 First-Year French (second semester)
 FREN 201, 202 Second-Year French
 FREN 301, 302 Third-Year French
 GERM 102 First-Year German (second semester)
 GERM 201, 202 Second-Year German
 JPNS 102 First-Year Japanese (second semester)
 JPNS 201, 202 Second-Year Japanese
 FCSC 310 Food, Culture, and Society
 FCSC 380 Evolution of Dress
 LITR 232 Masterpieces of World Literature, Non-Western
 ECON 360 Global Political Economy
 GEOG 200 Cultural Geography
 PSCI 250 International Conflict and Peace
 HIST 360 Modern Russia
 HIST 440 History of Africa
 HIST 470 Far East
 HIST 350 Latin America
 INTL 340 International Relations
 GEED 375 Juniors Abroad
 COMM 410 Gender Communication Across Cultures

Total: 6 hours

CHANGES FOR INCOMING FRESHMEN

For freshmen entering fall semester 2002 and others using this catalog to determine graduation eligibility, the general education requirements differ from those indicated in this chapter in the following ways:

1. Students must take a senior capstone course **GEED 490 Faith, Liberal Arts, and the World**. 3 hours. A course designed to encourage students to integrate their specialized knowledge and general education with Christian faith, in the context of addressing a public issue of current significance. The course explores how various disciplinary approaches to discerning truth may contribute to collaborative social action. Students will participate in groups to research the chosen public issue and formulate an action proposal. Individual students will be asked to formulate their own statement of faith, learning, and profession integration.
2. Students are no longer required to take RELI 470, 480, and 490.
3. Four courses are required in Humanities, not five. The one-course requirements in fine arts, history, and literature still apply. Total requirement is 11–12 hours.
4. The additional course in the sciences is no longer required. Still required are two courses from natural science, one from math, and two from social science. Total requirement is 15 hours.



EXEMPTIONS AND WAIVERS

Students with adequate background and the desire to take more elective courses are encouraged to check with the registrar and learn how they can test out of any of the above requirements (with the sole exception of a required minimum of 3 hours of Bible). A mathematics SAT score of 600 or above waives 3 hours of mathematics/computer requirements. A verbal SAT score of 670 or above waives WRIT 110 Freshman Composition. CLEP and Advanced Placement tests earn other exemptions, as do campus-administered examinations (see page 31).

GENERAL EDUCATION REQUIREMENTS FOR TEACHER EDUCATION

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

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

- 1. Bible and Religion:** 10 hours from stated options.
- 2. Communication:** 6 hours from stated options.

3. Health and Human Performance: 2 hours from stated options.

4. Humanities: 16 hours from stated options, including MUSI 120 The World of Music, ARTS 216/217 Survey of Art, and at least two courses each in history (including HIST 150 America and the World) and in literature (including LITR 231 Masterpieces of World Literature, Western or LITR 232 Masterpieces of World Literature, Non-Western).

5. Mathematics: This requirement is fulfilled within the major.

6. Natural Science: 6 hours from stated options.

7. Social Science: 6 hours from stated options, including PSYC 150 General Psychology.

8. Globalization: 3 hours. This requirement is fulfilled by GEOG 200 Cultural Geography and Global Relationships.

9. Education: 2 hours. This requirement is fulfilled by EDUC 240 Perspectives in Education.

PREPROFESSIONAL PROGRAMS

George Fox University is pleased with the excellent success students have had in gaining admission to medical and dental schools. Students who wish to pursue a career in medicine, dentistry, or veterinary medicine usually select a major in biology or chemistry. They may, however, choose any academic major the University offers as long as they take certain specific courses required by the professional schools. George Fox University offers all of the science and mathematics courses required by the professional schools of the region. Even though specific requirements differ with each medical school, the requirements uniformly include the following:

- BIOL 101, 102 General Biology
- CHEM 111, 112 General Chemistry
- CHEM 325, 326 Organic Chemistry
- PHYS 201, 202 General Physics
- One year of mathematics, usually fulfilled by MATH 201, 202 Calculus

- Other highly recommended courses are as follows:
- BIOL 310 Embryology
 - BIOL 322 Comparative Vertebrate Anatomy
 - BIOL 330 Animal Physiology
 - BIOL 350 Genetics

BIOL 370 Microbiology
 BIOL 420 Cell Biology
 CHEM 310 Analytical Chemistry
 CHEM 340 Biochemistry
 CHEM 401, 402 Physical Chemistry

It is important to consult with your academic advisor early in setting up a plan for a strong program. Students should be aware that, in addition to meeting the minimal entrance requirements, good grades (3.5 grade point average or above) and a strong performance on the national admissions tests (MCAT, DAT, VAT, usually taken in the spring of the junior year) are essential. Also necessary for admission are letters of recommendation and an interview with the professional school's admissions committee.

Our world needs Christian health professionals strong in character and maturity who have had broad educational and social experiences. George Fox University offers excellent opportunities to build these qualities through academic courses in areas such as ethics, psychology, computer science, literature, history, and foreign languages, and through varied social opportunities.

Prelaw Program

Students considering law school enjoy a wide range of options in their course of study, which can be worked out with their prelaw advisor. The best preparation for law school (and a legal career) emphasizes a broad liberal arts education as an undergraduate. Students need to prepare themselves to understand complex real-world problems from as many perspectives as possible.

Therefore, prelaw students may choose from many different majors, supplementing the major with electives and general education options that stress writing and oral communication skills, logical and critical thinking, close reading of difficult material, and deeper understanding of society and culture. Prelaw students are strongly encouraged to take PSCI 260 Introduction to Law, and to join in activities with other prelaw students. The prelaw advisor will work with students to help design their courses of study and plan for entry into law school.

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.

COURSE NUMBERING SYSTEM

Courses are designed for levels of experience and difficulty, and the course numbering system reflects this. Courses numbered 100 to 299 are lower-division level and normally are open to freshmen and sophomores. Courses numbered 300 to 499 are upper-division level and normally are open to juniors and seniors. Freshmen may not enroll in courses at the 300 and 400 level except by permission of the chairperson of the department in which the course is offered. A 300-numbered course may be open to sophomores. Exceptions may be made when prerequisites are met and general education requirements have been fulfilled on schedule.

- Course numbers ending in 0 (e.g., PSYC 350) designate courses that are complete in one semester. They may be scheduled for either semester during the college year.
- Course numbers ending in 5 (e.g., COMM 305) designate courses that may be pursued for several semesters under the same number, with all credits applicable, within stipulated limits.
- Course numbers ending in 1 and 2 (e.g., CHEM 211, 212) designate courses offered throughout the year. A

continuing course may not be entered in the second semester without completing the previous semester or obtaining the permission of the instructor.

- Course numbers ending in 75 designate supervised teaching or field education courses for which application is necessary through the registrar. See “Field Education” on page 123.
- Courses designated 285 and 485 are special classes that may be offered in any department to reflect single-time offerings of visiting professors or group seminars.
- Courses designated 295 and 495 are individualized special study programs not a part of the regular curriculum. Application forms are available from the registrar and, when completed, become a learning contract between the student and the instructor.
- A student may not be enrolled in more than four hours of 295/495 in any regular semester and may not accumulate more than 12 hours of 295/495 for graduation.
- Course number 490 designates a senior seminar that is completed in one semester; numbers 491 and 492 designate a senior seminar completed in two semesters.
- Many 300- and 400-level courses are offered in alternate years. If a year of offering is stated, it should be assumed that the course will be offered in alternate years only.
- A GEED prefix refers to general education.
- Courses at the 500 to 700 levels are graduate courses.

COURSE CHALLENGE PROGRAMS

Students may reduce the number of required courses and add flexibility to their undergraduate years by one or more of the following programs.

Advanced Placement

College credit may be granted in several subject areas to the student who completes a college-level course in high school and receives a score of three or better through the Advanced Placement program sponsored by the College Entrance Examination Board. Students expecting advanced placement credit should request, at the time the test is taken, for scores to be sent to George Fox University.

College Level Examination Program

The Educational Testing Service of the College Board provides nationally recognized standardized testing through which college credit may be earned or course proficiency verified. This is the College Level Examination Program (CLEP). Testing through the CLEP General Examinations is designed to verify competency

in general education. Tests may be taken in five areas for a maximum of 32 semester hours of credit. (General examinations are to be taken prior to the completion of the first semester of enrollment as a freshman at George Fox University.) It is recommended that the English Composition examination with essay be taken in June prior to college enrollment. Testing through the CLEP Subject Examinations provides verification of competency in selected academic fields such as foreign language, mathematics, etc. These may be taken at any time and assume competency has been gained in nonclassroom settings. See the registrar for details and test applications. The tests are administered by the registrar, as authorized by the College Entrance Examination Board, which sponsors the examinations.

Credit by Examination

Courses offered at George Fox University for which CLEP testing is not available may be challenged by examination. There is a test fee of \$40 per examination. See the registrar for details.

International Baccalaureate (IB)

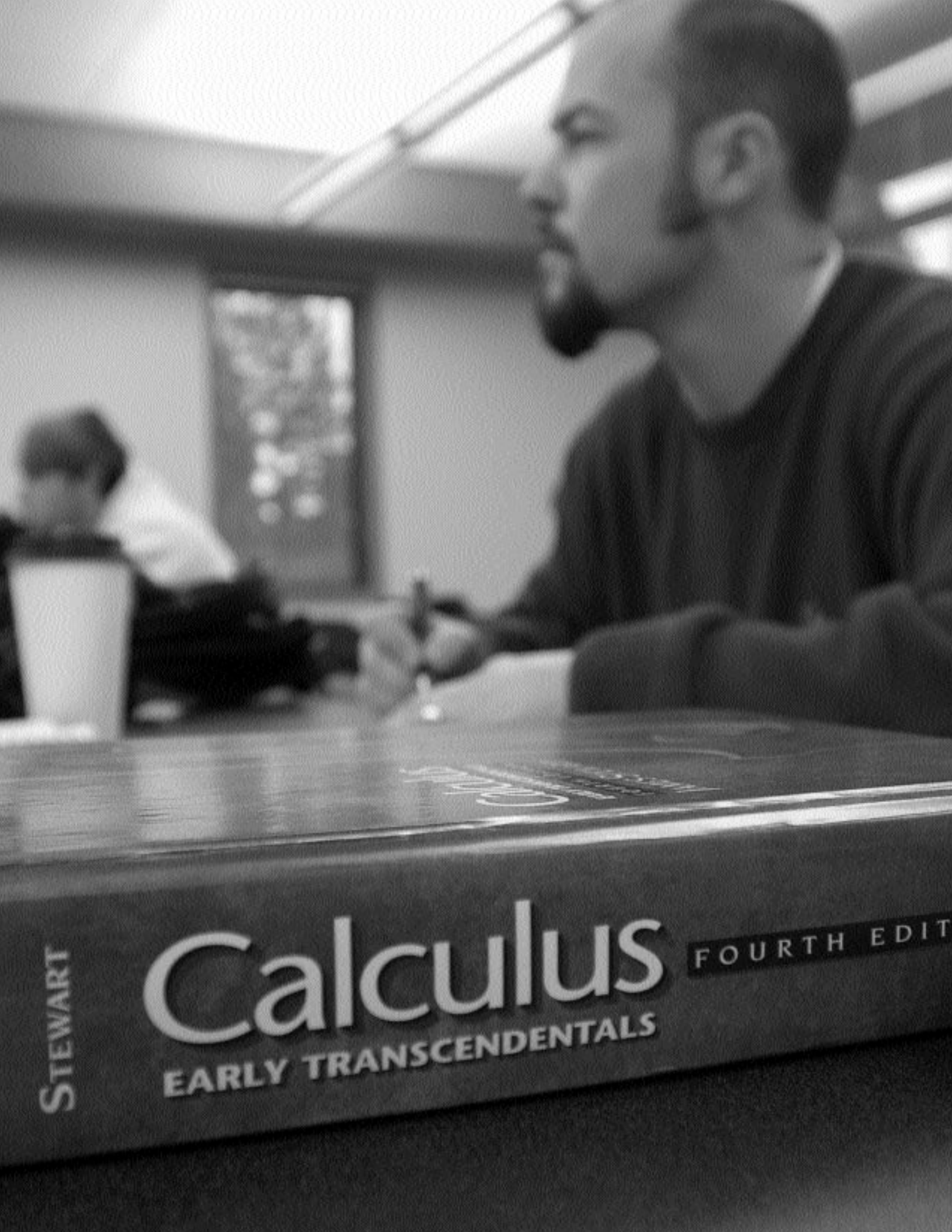
College credit may be granted in several subject areas to students who complete college-level work through the International Baccalaureate program. A minimum score of five is required on High Level examinations for credit consideration. Students must provide the registrar’s office with a copy of the International Baccalaureate transcript to receive consideration. Credits awarded as a result of International Baccalaureate documentation will be accepted as transfer credit.

Proficiency Test

A student may fulfill general education and some program requirements or become eligible for registration in advanced courses by passing a proficiency test for the area involved. No fee is charged for proficiency testing, and credit is not granted. Typical academic areas for which proficiency tests are available are languages, music, Bible, and physical education activity courses.

A placement test is generally required prior to registration for George Fox University modern language classes. Placement tests are generally given during new student orientation.

A student from a non-English-speaking nation may fulfill the language requirement by demonstrating proficiency in the English language.



STEWART

Calculus

EARLY TRANSCENDENTALS

FOURTH EDITION



IV
MAJOR AND MINOR
REQUIREMENTS



*“Examinations are formidable even to
the best prepared, for the greatest fool may ask
more than the wisest man can answer.”*

— Charles Caleb Colton

MAJORS AND MINORS

Degrees

George Fox University confers these undergraduate degrees: bachelor of arts and bachelor of science.

Admission to a Major

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

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

In most cases, admission to a major will include meeting initial standards, as in the example of admission to teacher education and music. Admission to a major is normally accomplished no later than the end of the junior year, or before the completion of 90 credits.

Interdisciplinary Majors

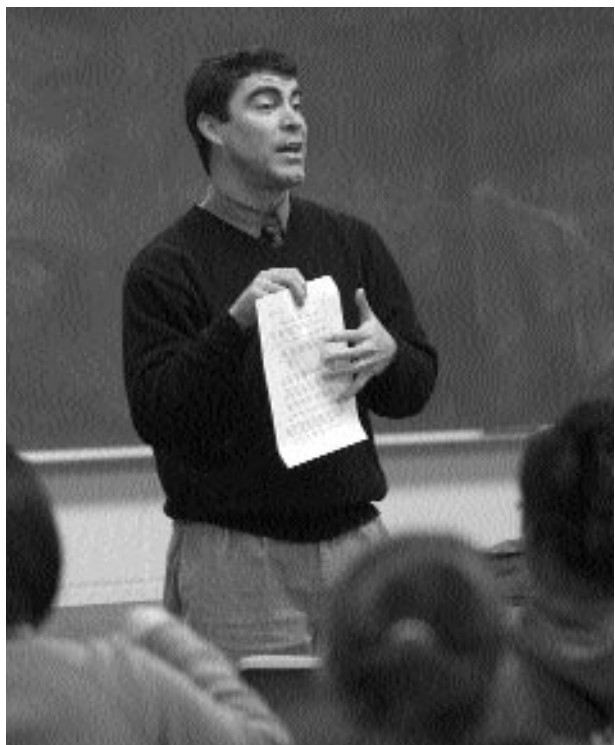
The interdisciplinary major consists of a minimum of 48 semester hours with either a 24/12/12-hour option from three fields or a 24/24-hour option from two fields. The 24/12/12 and the 24/24 options are at the discretion of the department. Of these hours, 30 must be upper division. The student must complete a contract form prepared in consultation with the advisor, the registrar, and the department chairperson of the largest component.

Selection of a Minor

A minor is a package of elective courses that have a common bond and that identify certain interests and competencies. Usually a minor consists of an approved group of courses with no fewer than 18 semester hours, 6 of which must be upper-division credit. The registrar's office will provide information on requirements, or some are listed in this catalog.

Majors

- Accounting (B.A.)
- Applied Science (Engineering) (B.S.)
- Art (B.A.)
 - Concentrations in:*
 - Graphic Design*
 - Studio Arts*
- Biblical Studies (B.A.)
- Biology (B.S.)
- Business Administration (B.A.)
 - Concentrations in:*
 - Finance*
 - International Business Management*
 - Marketing*
- Chemistry (B.S.)
- Christian Ministries (B.A.)
 - Concentrations in:*
 - Church Recreation*
 - Educational Ministry*
 - Missions*
 - Youth Ministry*
- Cinema and Media Communication (B.A.)
 - Concentrations in:*
 - Production*
 - Multimedia*
 - Broadcasting*
 - Film Studies*
- Cognitive Science (B.S.)
- Communication Arts (B.A.)
 - Concentration in:*
 - Theatre Arts*
- Computer and Information Science (B.S.)
 - Concentrations in:*
 - Computer Science*
 - 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*
- Health and Human Performance (B.S.)
 - Concentrations in:*
 - Athletic Training*
 - Fitness Management*
 - Health Preteaching*
 - Physical Education Preteaching*



History (B.A.)
 Interdisciplinary Studies (B.A. or B.S.)
 International Studies (B.A.)
 Concentration in:
 Religion
 Management and Business Information Systems (B.S.)*
 Management and Organizational Leadership (B.A.)*
 Management of Human Resources (B.A.)*
 Mathematics (B.S.)
 Music (B.A.)
 Concentration in:
 Performance
 Preteaching
 Composition
 Organizational Communication (B.A.)
 Philosophy (B.A.)
 Political Science (B.A.)
 Psychology (B.A. or B.S.)
 Religion (B.A.)
 Social and Behavioral Studies (B.A.)*
 Social Work (B.A. or B.S.)
 Sociology (B.A. or B.S.)
 Spanish (B.A.)
 Writing/Literature (B.A.)

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

Minors

Art
 Biblical Studies
 Biology
 Business
 Camping: Administrative
 Camping: Programming
 Chemistry
 Christian Ministries: Church Recreation
 Christian Ministries: Educational Ministry
 Christian Ministries: Missions
 Christian Ministries: Youth Ministry
 Church Music
 Cinema and Media Communication
 Coaching
 Communication Arts
 Computer and Information Science
 Drama Teaching
 Economics
 Family and Consumer Sciences
 Fashion Merchandising/Interior Design
 Field Biology
 Foods and Nutrition
 French
 Gerontology
 Health
 Health Teaching
 History
 International Studies
 Leadership Studies
 Literature
 Marriage and Family
 Mathematics
 Music
 Music Theatre
 Peace Studies
 Philosophy
 Political Science
 Psychology
 Quaker Studies
 Recreation
 Religion
 Romance Language
 Social Work
 Sociology
 Spanish
 Speech Teaching
 Teaching English to Speakers of Other Languages
 Theatre
 Writing

A

ACCOUNTING

ACCOUNTING

See Business and Economics, page 37.

APPLIED SCIENCE

See Engineering, page 45.

ART

Art Major (B.A.)

Studio Arts Concentration

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

ARTS 101 Basic Design I
ARTS 102 Basic Design II
ARTS 111 Drawing I
ARTS 112 Drawing II
ARTS 381 Baroque and Rococo Art
ARTS 382 Twentieth-Century Art
ARTS 385 Special Topics in Art History
ARTS 460 Art and Christ
ARTS 490 Senior Thesis Exhibit
(Or ARTS 475 Field Experience, by petition)

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

ARTS 201 Beginning Painting
ARTS 221 Beginning Sculpture
ARTS 230 Beginning Photography
ARTS 231 Beginning Printmaking
ARTS 240 Beginning Mixed Media
ARTS 241 Beginning Ceramics
ARTS 250 Introduction to Graphic Design
ARTS 265 Contemporary Art Seminar
ARTS 285 Selected Topics
ARTS 295 Special Study
ARTS 301 Intermediate Painting
ARTS 321 Intermediate Sculpture
ARTS 330 Intermediate Photography
ARTS 331 Intermediate Printmaking
ARTS 340 Intermediate Mixed Media
ARTS 341 Intermediate Ceramics
ARTS 350 Graphic Design 2: Typography
ARTS 401 Advanced Painting
ARTS 421 Advanced Sculpture
ARTS 431 Advanced Printmaking
ARTS 441 Advanced Ceramics
ARTS 495 Special Study
THEA 125/325C Theatre Laboratory
THEA 255/455 Technical Theatre

Graphic Design Concentration

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

ARTS 101 Basic Design I
ARTS 102 Basic Design II
ARTS 111 Drawing I
ARTS 112 Drawing II
ARTS 250 Introduction to Graphic Design
ARTS 350 Graphic Design 2: Typography



ARTS 360 Illustration
ARTS 382 Twentieth-Century Art
ARTS 383 History of Visual Communications
ARTS 450 Graphic Design 3: Design Applications
ARTS 460 Art and Christ
ARTS 490 Senior Thesis Exhibit
(Or ARTS 475 Field Experience, by petition)

Select 12 hours from the following courses:

BUSN 110 Introduction to Business
ARTS 201 Beginning Painting
ARTS 230 Beginning Photography
ARTS 231 Beginning Printmaking
CMCO 250 Digital Multimedia Production
ARTS 301 Intermediate Painting

WRIT 310 Professional Writing and Desktop Publishing
ARTS 330 Intermediate Photography
BUSN 340 Marketing
BUSN 420 Advertising and Promotion
BUSN 450 Marketing Research
ARTS 451 Packaging, Public Graphics, and Signage

Art: Interdisciplinary Major (B.A.)

MAJOR REQUIREMENTS

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

Required courses for an art interdisciplinary major are:

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

ATHLETIC TRAINING

See Health and Human Performance, page 48.

BIBLICAL STUDIES

See Religion, page 54.

BIOLOGY

Biology Major (B.S.)

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

BIOL 101, 102 General Biology
BIOL 350 Genetics
BIOL 360 Ecology
BIOL 491, 492 Senior Seminar
(BIOL 384 Research Methods and BIOL 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

CHEM 211, 212 General Chemistry
CHEM 325 Organic Chemistry
Plus one of the following:
CHEM 326 Organic Chemistry
CHEM 310 Analytical Chemistry

Mathematics

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

Physics

PHYS 201, 202 General Physics or PHYS 211, 212 General Physics With Calculus is also recommended.

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

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

Thesis Option

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

1. Complete an acceptable research proposal and the Research Methods course (BIOL 384) by the end of the spring semester of the junior year.
2. Take up to 4 hours of Biological Research (BIOL 495) between the spring semester of their junior year and graduation, and Senior Thesis (BIOL 496) during the spring semester of their senior year.
3. Complete a written thesis acceptable to the thesis committee by April 1 of their senior year.
4. Prepare a poster and give an oral presentation of their research prior to graduation.

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

BUSINESS AND ECONOMICS

Accounting Major (B.A.)

MAJOR REQUIREMENTS

This major offers a 52-semester-hour course of study, enabling students to acquire the necessary technical and professional skills for successful careers in public, managerial, or governmental accounting. Like other majors in

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

Business Core

BUSN 110 Introduction to Business
BUSN 300 Management
BUSN 310 Financial Management
BUSN 340 Marketing
BUSN 360 Business Law
ECON 201 Principles of Microeconomics
ECON 202 Principles of Macroeconomics
ACCT 271 Principles of Financial Accounting
ACCT 272 Principles of Managerial Accounting

Accounting Core

ACCT 273 Accounting Information Systems
ACCT 350 Taxation
ACCT 371 Financial Accounting and Reporting I
ACCT 372 Financial Accounting and Reporting II
ACCT 471 Advanced Accounting
ACCT 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.

Business Administration Major (B.A.)

MAJOR REQUIREMENTS

The requirements for a business administration major include four components: the Introduction to Business course, a principles core of courses, a functional core of courses, and completion of a concentration in one of the following areas: finance, international business, management, or marketing.

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. Field experiences and internships are encouraged.

Freshman Year (3 hours)

BUSN 110 Introduction to Business

Principles Core (15 hours)

BUSN 240 Statistics for Business and Economics
ACCT 271 Principles of Financial Accounting
ACCT 272 Principles of Managerial Accounting
ECON 201 Principles of Microeconomics
ECON 202 Principles of Macroeconomics

Functional Core (12 hours)

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

Senior Year (12 hours)

BUSN 490 Senior Capstone Course

Concentrations (8 hours)

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

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

Finance

BUSN 471 Investments, Financial Markets, and Institutions
BUSN 472 Advanced Corporate Finance
BUSN 490 Senior Capstone Course
(ACCT 371, 372 Financial Accounting and Reporting are recommended.)

International Business

ECON 460 International Trade and Finance
BUSN 440 International Management
BUSN 490 Senior Capstone Course

Management

ECON 430 Managerial Economics
BUSN 480 Organizational Behavior
BUSN 490 Senior Capstone Course

Marketing

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

Business Minor (21 hours)

BUSN 110 Introduction to Business
ECON 201 Principles of Microeconomics
ECON 202 Principles of Macroeconomics

ACCT 271 Principles of Financial Accounting
 ACCT 272 Principles of Managerial Accounting
 BUSN 300 Management
 BUSN 340 Marketing

Economics Major (B.A.)

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 gov-



ernment, 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.

MAJOR REQUIREMENTS (41 hours required)

ECON 201 Principles of Microeconomics
 ECON 202 Principles of Macroeconomics
 BUSN 240 Statistics for Business and Economics
 ECON 340 Public Economics
 ECON 360 Global Political Economy
 ECON 430 Managerial Economics
 ECON 460 International Trade and Finance

6 hours from the following options:

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

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

6 hours from the following outside electives:

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

Economics Minor (18 hours)

ECON 201 Principles of Microeconomics
 ECON 202 Principles of Macroeconomics

Plus a minimum of 12 hours from the following:

BUSN 240 Statistics for Business and Economics
 ECON 340 Public Economics

ECON 360 Global Political Economy
 ECON 430 Managerial Economics
 ECON 460 International Trade and Finance
 ECON 475 Field Experience
 ECON 485 Selected Topic
 ECON 495 Special Study

CHEMISTRY

Chemistry Major (B.S.)

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:

Chemistry

CHEM 211, 212 General Chemistry
 CHEM 310 Analytical Chemistry
 CHEM 325, 326 Organic Chemistry
 CHEM 401, 402 Physical Chemistry

Students must take two of the following three courses:
 CHEM 320 Advanced Inorganic Chemistry
 CHEM 390 Organic Synthesis and Analysis
 CHEM 410 Advanced Chemical Measurements

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

Mathematics

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

Physics

PHYS 201, 202 General Physics is required.

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

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

Thesis Option

Philosophy: The opportunity to pursue a chemistry thesis is an honor. Consequently, the thesis option will be noted on a student's transcript. The thesis is designed to enhance a student's preparation for graduate or professional school. The heart of the thesis is original research conducted under the guidance of a chemistry faculty member.

Eligibility: The thesis option may be pursued by any chemistry major in good academic standing. Students wishing to pursue a thesis must:

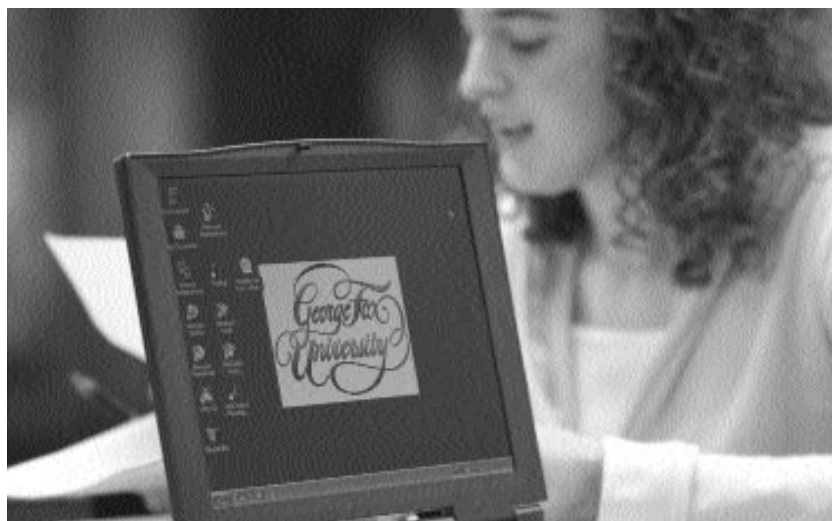
1. Consult with their research advisor about an acceptable research project.
2. In writing, notify the chemistry thesis committee (composed of the chemistry department faculty) of their intention to conduct research. The thesis committee must receive notification by the end of the fall semester of the student's junior year.

After the beginning of the spring semester of a student's junior year, students must petition the department thesis committee for permission to pursue thesis research.

Requirements: Students who pursue the thesis option must:

1. Enroll in at least 1 hour of Chemical Research (CHEM 495) each semester, beginning the spring semester of their junior year, through the spring semester of their senior year.
2. Submit the first copy of a written thesis to the thesis committee by April 1 of their senior year. The final, edited copy is due to the thesis committee the last day of classes during the spring semester.
3. Prepare a poster and give an oral presentation of

their research. In some cases, students may apply research conducted off campus to the CHEM 495 requirement. Students who participate in off-campus research programs may petition the thesis committee for special consideration of the thesis option. The thesis committee must receive the petition by the beginning of the fall semester of the student's senior year. The thesis committee may elect to substitute the off-campus experience for a portion of the CHEM 495 requirement.



CHRISTIAN MINISTRIES

See Religion, page 54.

COGNITIVE SCIENCE

Cognitive Science Major (B.S.)

Cognitive science is an interdisciplinary study of the mind. The major draws on several disciplines to provide a broad foundation from which to understand and study mental processes. Students are provided flexibility within the major to explore that aspect of the mind that most interests them (e.g., psychological, physiological, philosophical, computational).

MAJOR REQUIREMENTS

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

General Education Requirements

PHIL 210 Introduction to Philosophy
MATH 201 Calculus I or MATH 260 Discrete Mathematics
BIOL 221 Human Anatomy and Physiology
PSYC 150 General Psychology
SOC 310 Cultural Anthropology

COMMUNICATION ARTS

Communication Arts Major (B.A.)

MAJOR REQUIREMENTS

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

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

Performance Core Courses

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

Theory Core Courses

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

Practicum

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

Electives

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

Theatre Concentration

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

Performance and Technical Core Courses

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

Theory Core Courses

THEA 240 Understanding Drama
LITR 385 Major Authors
COMM 300 Theoretical Approaches to Communication
THEA 340 Theatre as Ministry
COMM 400 Critical Approaches to Communication

Practicum

7 hours from:
THEA 125/325 Theatre Laboratory
THEA 165/365 George Fox University Players
THEA 275/475 Field Experience.

Recommended

CMCO 320 Dramatic Scriptwriting
CMCO 350 Editing Video
CMCO 430 Producing and Directing Video

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

Cinema and Media Communication Major (B.A.)

MAJOR REQUIREMENTS

The cinema and media communication major combines the liberal arts emphasis of communication arts with hands-on experiences in video, film, and digital media production. Extensive electives allow the student to design a program that fits individual needs or interests. The major consists of 39 required semester hours (exclusive of general education courses), distributed as follows:

Theory Core Courses (9 hours)

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

Production Core (15 hours)

CMCO 230 Introduction to Video Production
CMCO 250 Digital Multimedia Production
CMCO 260 Scriptwriting for Media
CMCO 350 Editing Video
CMCO 475 Field Experience

Choose an area of concentration and 15 hours of its associated electives from the categories below.

Production Concentration

CMCO 320 Dramatic Scriptwriting
CMCO 340 Audio Production and Broadcasting
CMCO 355 Event Video Production
CMCO 430 Producing and Directing Video

THEA 255/455 Technical Theater
CMCO 475 Field Experience
CMCO 495 Independent Study

Multimedia Concentration

ARTS 250 Introduction to Graphic Design
ARTS 230 Beginning Photography
WRIT 310 Professional Writing and Desktop Publishing
CMCO 340 Audio Production and Broadcasting
CMCO 355 Event Video Production
CMCO 475 Field Experience
CMCO 495 Independent Study

Broadcast News Performance Concentration

CMCO 295 Broadcast News
CMCO 340 Audio Production and Broadcasting
CMCO 355 Event Video Production
COMM 200 Persuasive Communication
WRIT 230 Introduction to Journalism
THEA 220 Oral Interpretation of Literature
CMCO 475 Field Experience
CMCO 495 Independent Study

Film Studies Concentration

Either 15 hours of course work at the Los Angeles Film Studies Center (see page 124), or
CMCO 320 Dramatic Scriptwriting
CMCO 430 Producing and Directing Video
CMCO 475 Field Experience
CMCO 495 Independent Study
NWFC* Cinematography
NWFC* Intermediate Cinematography
NWFC* Optical Printing

*These hands-on courses, to be taken at the Northwest Film Center, allow students to utilize film format.

Organizational Communication Major (B.A.)

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 COMM 200 Persuasive Communication or COMM 324 Argumentation and Critical Thinking
COMM 320 Introduction to Public Relations
COMM 370 Organizational Communication
COMM 380 Leadership Communication
Either COMM 305/475 Professional Communication Activities/Field Experience or BUSN 475 Field Experience
Either WRIT 310 Professional Writing or CMCO 260 Scriptwriting for Media

Business Core (18 hours including the following)

BUSN 110 Introduction to Business
BUSN 300 Management
BUSN 340 Marketing
BUSN 420 Marketing Communication and Strategy

Electives (6 hours)

Select two courses from the following options.
BUSN 380 Information Systems
BUSN 440 International Management
BUSN 480 Organizational Behavior
CMCO 250 Digital Multimedia Production
COMM 210 Interpersonal Communication
COMM 230 Mass Media and Popular Culture
COMM 300 Theoretical Approaches to Communication
COMM 310 Conflict Resolution
COMM 360 Nonverbal Communication
PSYC 350 Social Psychology

Communication Arts Minor (20 hours)

COMM 100 Introduction to Communication
Either COMM 200 Persuasive Communication or COMM 210 Interpersonal Communication
COMM 300 Theoretical Approaches to Communication

Select 11 hours from the following:

COMM 230 Mass Media and Popular Culture
COMM 305 Professional Communication Activities (2 hours maximum)
COMM 310 Conflict Resolution
COMM 320 Introduction to Public Relations
COMM 340 General and Cultural Linguistics
COMM 360 Nonverbal Communication
COMM 380 Leadership Communication
COMM 400 Critical Approaches to Communication
CMCO 230 Introduction to Video Production
THEA 220 Oral Interpretation of Literature
WRIT 230 Introduction to Journalism

Theory Core Courses (9 hours)

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

Production Core (12 hours)

- CMCO 230 Introduction to Video Production
- CMCO 250 Digital Multimedia Production
- Either CMCO 260 Scriptwriting for Media or CMCO 320 Dramatic Scriptwriting
- Either CMCO 350 Editing Video or CMCO 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:

- ARTS 250 Introduction to Graphic Design
- ARTS 285 Photography
- CMCO alternatives not chosen in core:
- CMCO 340 Audio Production and Broadcasting
- CMCO 355 Live Events Video Production
- CMCO 295 Broadcast News
- CMCO 475 Field Experience
- CMCO 495 Independent Study
- COMM 305 Professional Communication Activities
- THEA 255/455 Technical Theatre
- WRIT 230 Introduction to Journalism
- WRIT 310 Professional Writing/Desktop Publishing

Other courses preapproved by advisor and department chair.

Theatre: Interdisciplinary Major (B.A.)

MAJOR REQUIREMENTS

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

COMPUTER AND INFORMATION SCIENCE

Computer and Information Science Major (B.S.)

The function and influence of the computer is pervasive throughout society. Computers process data from banks, communications satellites, video games, and even the fuel and ignition systems of automobiles. Computer software is as commonplace in the areas of education and recreation as it is in science and business. Every field or profession relies upon computer science for the

problem-solving skills and the production expertise required in the efficient processing of information. Computer scientists, therefore, function in a wide variety of roles ranging from pure theory and design to programming and marketing.

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

MAJOR REQUIREMENTS

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

Computer Science Concentration

Required computer and information science courses:

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

Choose 18 hours from the following:

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

Required supporting courses in mathematics:

- MATH 201 Calculus I
- MATH 260 Discrete Mathematics

Information Science Concentration

Required computer and information science courses:

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

Choose 12 hours from the following:

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

Required business courses:

- BUSN 110 Introduction to Business
- BUSN 300 Management

Required supporting course in mathematics:

- MATH 260 Discrete Mathematics

ECONOMICS

See Business and Economics, page 37.

EDUCATION

See Teacher Education, page 58.

ENGINEERING

Engineering Major (B.S.)

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.

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

Engineering Core

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

Mathematics and Natural Science

- MATH 201, 202, 301 Calculus I, II, III
- MATH 310 Differential Equations
- CHEM 211 General Chemistry
- PHYS 211, 212 General Physics with Calculus

Plus a math elective, selected from the following:

- MATH 300 Numerical Methods
- MATH 320 Linear Algebra
- MATH 331 Probability

Plus a natural science elective selected from the following:

- BIOL 100 Foundations of Biology
- BIOL 101 General Biology
- BIOL 221, 222 Human Anatomy and Physiology
- CHEM 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.

Electrical Engineering Concentration

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

Choose 9 hours of electrical engineering electives from the following:

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

Mechanical Engineering Concentration

- ENGM 300 Computational Methods
- ENGM 312 Applications of Engineering Thermodynamics
- ENGM 320 Mechanics of Materials
- ENGM 330 Fluid Mechanics
- ENGM 350 Machine Dynamics and Vibrations



- ENGM 380 Heat Transfer
- ENGM 400 Mechanical Engineering Design

Choose 9 hours of mechanical engineering electives from the following:

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

Applied Science Major (B.S.)

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.

*It is strongly recommended that students interested in pursuing the 3/2 option in chemical engineering also enroll in CHEM 325, 326 Organic Chemistry and CHEM 401, 402 Physical Chemistry during their three years at George Fox University.

MAJOR REQUIREMENTS

Requirements for an applied science major consist of 50 semester hours, to include the following:
ENGR 151, 152 Engineering Principles I and II
ENGR 250 Principles of Materials Science

- ENGR 250 Electric Circuit Analysis
- ENGM 210 Statics and Dynamics
- ENGM 311 Engineering Thermodynamics
- MATH 310 Differential Equations
- PHYS 211, 212 General Physics with Calculus

Choose 3 hours of engineering electives from the following:

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

Choose 6 hours of math electives from the following:

- MATH 300 Numerical Methods
- MATH 320 Linear Algebra
- MATH 331 Probability

12 additional hours in engineering courses are to be transferred back from the cooperating engineering school.

8 hours of CHEM 211, 212 General Chemistry are required, which meet the natural science general education requirement.

11 hours of MATH 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.

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.

FAMILY AND CONSUMER SCIENCES

Family and Consumer Sciences Major (B.S.)

MAJOR REQUIREMENTS

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

Family and Consumer Sciences Concentration

Family and consumer sciences are grounded in the sciences and humanities. At the core is concern for the biological, social, aesthetic, physical, economical, and psychological needs of each family member. Today's



families must be able to manage relationships, services, goods, and resources.

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

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

- FCSC 120 Apparel Construction
- FCSC 211 Foods I
- FCSC 212 Foods II
- FCSC 220 Fashion and Society

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

Foods and Nutrition in Business Concentration

Foods and nutrition in business is a multidisciplinary concentration incorporating academic cores in consumer-oriented food science education, human nutrition, and business.

Course work in food composition and preparation, analysis of consumer trends, and recognition of global food issues prepares students as food professionals, while course work in human nutrition and contemporary nutrition issues equips them with the knowledge base necessary to work in areas of fitness management, diet analysis, and consumer nutrition education. The third core of course work serves as the medium for the utilization of this knowledge base, preparing students for careers in industries requiring the skills of food specialists, including new product development, test kitchens, recipe development, and food product promotion.

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

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

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

Fashion Merchandising/Interior Design Concentration

The fields of fashion merchandising and interior design share a common base of knowledge grounded in the academic fields of family and consumer sciences and business. A background in apparel construction and design, merchandising of fashion, and market analysis prepares students for careers in fashion merchandising.

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

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

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

- FCSC 120 Apparel Construction
- FCSC 220 Fashion and Society
- FCSC 230 Textiles Science
- FCSC 250 Residential Technology
- FCSC 320 Fashion Merchandising
- FCSC 330 Residential Architecture
- FCSC 350 Resource Management
- FCSC 351 Interior Design I
- FCSC 360 Consumer Buying
- FCSC 370 Pattern Drafting and Apparel Design
- FCSC 475 Field Experience
- FCSC 490 Senior Seminar
- BUSN110 Introduction to Business
- Either BUSN 300 Management or BUSN 340 Marketing

Take two of the following four classes:

- FCSC 352 Interior Design II
- FCSC 353 Interior CAD
- FCSC 378 Apparel CAD
- FCSC 460 Apparel Market Analysis

Cooperative 3-1 Degree Program Concentration With the Fashion Institute of Design and Merchandising

George Fox University offers a cooperative degree program with the Fashion Institute of Design and Merchandising (FIDM) in Los Angeles, California. This cooperative program provides for students to attend George Fox University for three years, which allows the completion of all general education classes, all elective classes, and 14 hours in the fashion merchandising/interior design major.

Students attend FIDM for either their junior or senior year to complete a specialized major. The broad spec-

trum 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.

FRENCH

French Minor

Prerequisite for entry in the minor: completion of French 202 or placement test. Requirements for a minor in French:

FREN 301 and 302 Third-Year French

FREN 490 Study Abroad (12–16 hours, in an approved program, depending on placement exam)

GRAPHIC DESIGN

See Art, page 36.

HEALTH AND HUMAN PERFORMANCE

Health and Human Performance Major (B.S.)

MAJOR REQUIREMENTS

Athletic Training Concentration

Students wishing to prepare for a career in athletic training should consult with the athletic training program director within the first two weeks of the fall semester of their freshman year. Students must complete a minimum of 75 observational hours in the athletic training room to be eligible for acceptance in the athletic training education program.

Students make formal application for admission to the athletic training education program through the program director in the spring of their freshman year. Application must be made by March 15 of the semester prior to formal entry into the athletic training concentration.

Admission to the program is based upon attainment of a cumulative GPA of 2.75 or better on all college-level courses. In addition, a cumulative high school GPA of 2.75 or better must have been attained. Other factors to be considered include a minimum of two written recommendations; meeting technical standards as described in

the *Student Athletic Training Handbook*; exemplary social and moral behavior; and submission of the formal application no later than March 15. Generally, any application submitted after March 15 will not be considered for admission the following school year. Admission to the program is required before applicants may work as student athletic trainers within the student athletic training education program or declare athletic training as a concentration.

Transfer students must demonstrate the completion of a basic college level first aid/CPR course and the completion of at least 75 athletic training internship hours working under the guidance of an NATABOC certified athletic trainer. In addition, the supervising certified athletic trainer must write one of the letters of recommendation. Upon acceptance into the program, the student must follow the academic course plan as described in the *Student Athletic Training Handbook*. Guidelines covering transfer credit are stated in the handbook. Transfer credit generally will not be granted for HHPE 375 Athletic Training Practicum.

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

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

- HLTH 200 Lifestyle Management
- HLTH 210 Drug Education
- HLTH 230 First Aid and Safety
- HLTH 300 Nutrition
- HHPA 135 Weight Training
- HHPE 228 Conditioning/Body Mechanics and Aerobics
- HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training
- HHPE 365 Current Issues in Athletic Training
- HHPE 375 Athletic Training Practicum (4 semesters)
- HHPE 384 Pharmacology
- HHPE 390 Care and Prevention of Athletic Injuries
- HHPE 394 Kinesiology

HHPE 400 Recognition of Athletic Injuries
 HHPE 413 Therapeutic Exercise
 HHPE 414 Therapeutic Modalities
 HHPE 430 Exercise Physiology
 HHPE 490 Senior Seminar
 BIOL 221, 222 Human Anatomy and Physiology
 PSYC 340 Statistical Procedures

Select one course from:

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

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

Fitness Management Concentration

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

The requirements are distributed as follows:

Take 38-40 hours from the following:

HLTH 230 First Aid and Safety
 HHPE 200 History and Principles of Physical Education



HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training
 HHPE 390 Care and Prevention of Athletic Injuries
 HHPE 394 Kinesiology
 HHPE 430 Exercise Physiology
 HHPE 460 Physical Education for the Exceptional Student
 HHPE 470 Motor Development and Motor Skill Learning

HHPE 475 Fitness Management Field Experience
 HHPE 495 Special Study
 BIOL 221 Human Anatomy and Physiology
 BIOL 222 Human Anatomy and Physiology

Take 12-13 hours from the following:

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

Choose one course from the following:

HLTH 240 Stress Management
 HHPE 400 Recognition of Athletic Injuries
 HHPE 480 Tests and Measurements in Physical Education
 HHPE 490 Senior Seminar

Health Preteaching Concentration

Students who wish to become health teachers are essentially entering a five-year program. They will take the health preteaching concentration within the Department of Health and Human Performance. Upon successful completion of this four year concentration, students are directed to enter a one-year Master of Arts in Teaching Program. Upon completion of the M.A.T. program the student will have completed the master's

degree and be certified to teach health. The following 50 semester hours are required for the health preteaching concentration.

BIOL 221 Human Anatomy
 BIOL 222 Human Physiology
 HLTH 200 Lifestyle Management
 HLTH 210 Drug Education
 HLTH 230 First Aid and Safety
 HLTH 240 Stress Management
 HLTH 280 Marriage and the Family
 HLTH 300 Nutrition
 HLTH 310 School Health Program
 HLTH 320 Contemporary Health Issues
 HHPE 200 History and Principles of Physical Education
 HHPE 333 Developmental Health and Physical Education
 HHPE 360 Organization and

Administration of Health, Physical Education, and Athletic Training

HHPE 394 Kinesiology
 HHPE 430 Exercise Physiology
 HHPE 460 Physical Education for the Exceptional Student
 HHPE 490 Senior Seminar
 PSYC 340 Statistical Procedures
 EDUC 240 Perspectives In Teaching

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HEALTH AND HUMAN PERFORMANCE

Note: In addition to these requirements, the general education component includes PSYC 150 General Psychology.

Physical Education Preteaching Concentration

Students who wish to become physical education teachers are essentially entering a five-year program. They will take the physical education preteaching concentration within the Department of Health and Human Performance. Upon successful completion of this four-year concentration students are directed to enter a one-year Master of Arts in Teaching Program. Upon completion of the M.A.T. program the student will have completed the master's degree and be certified to teach physical education.

Requirements for the K-12 prephysical education teaching concentration in human performance consist of 50-51 semester hours, 28 of which must be upper-division courses. Courses selected to satisfy science general education requirements may include BIOL 100, 102, General Biology. Either CHEM 100 Chemistry of Life or CHEM 110 Chemistry and Our Environment are recommended.

- HLTH 210 Drug Education
- HLTH 230 First Aid and Safety
- HLTH 200 History and Principles of Physical Education
- HLTH 221 Basketball/Golf
- HLTH 222 Field Sports
- HLTH 223 Tumbling/Gymnastics
- HLTH 226 Tennis/Volleyball
- HHPE 109 Ballroom Dance
- HHPE 128 Swimming Strokes/Water Aerobics (waived with Lifeguarding or WSI certification)
- HHPE 232 Recreational Games: Badminton/Archery
- HHPE 300 Coaching Theory
- HHPE 333 Developmental Health and Physical Education
- HHPE 360 Organization and Administration of Health, Physical Education and Athletic Training
- HHPE 394 Kinesiology
- HHPE 410 Teaching Physical Education
- HHPE 420 Exercise Prescription
- HHPE 430 Exercise Physiology
- HHPE 460 Physical Education for the Exceptional Student
- HHPE 470 Motor Development and Motor Skill Learning
- HHPE 480 Tests and Measurements in Physical Education
- HHPE 490 Senior Seminar
- BIOL 221 Human Anatomy
- BIOL 222 Human Physiology
- EDUC 240 Perspectives In Teaching

Choose 1 elective course from the following:

- HHPE 310 Coaching Basketball
- HHPE 320 Coaching Baseball/Softball
- HHPE 330 Coaching Soccer
- HHPE 340 Coaching Track and Field
- HHPE 350 Coaching Volleyball
- HHPE 390 Care and Prevention of Athletic Injuries
- HLTH 300 Nutrition
- HLTH 310 School Health

General Education Requirements

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

Health and Human Performance: Interdisciplinary Major (B.S.)

MAJOR REQUIREMENTS

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

Requirements for the human performance block include the following:

- HLTH 200 Lifestyle Management
- HLTH 230 First Aid and Safety
- HLTH 240 Stress Management
- HHPE 227A Lifeguard Training
- HHPE 228 Conditioning/Body Mechanics and Aerobics
- HHPE 229 Folk and Western Dance
- HHPE 333 Developmental Health and Physical Education
- HHPE 370 Camp Programming and Counseling
- HHPE 380 Recreational Leadership
- HHPE 440 Camp Administration

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

HISTORY

History Major (B.A.)

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:

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

INTERNATIONAL STUDIES

International Studies Major (B.A.)

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, missiology, and area studies. The major includes a strong international fieldwork 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:

INTL 310 Cultural Anthropology

Either INTL 330 Introduction to the World Christian Movement or RELI 360 Cross-Cultural Christian Outreach

INTL 340 International Relations

INTL 440 World Religions

Either INTL 460 International Trade and Finance or ECON 360 Global Political Economy

INTL 490 International Studies Senior Seminar

The second year of a modern foreign language
8 hours of INTL 475 Culture-Oriented Fieldwork

Two additional 3-hour courses from the following:

COMM 300 Theoretical Approaches to Communication

COMM 340 General and Cultural Linguistics

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

ECON 360 Global Political Economy

ECON 460 International Trade and Finance

HIST 320 History of the Middle East

HIST 331 England to 1688

HIST 332 England Since 1688

HIST 350 Latin America

HIST 360 Modern Russia

HIST 370 Far East

HIST 421 Europe 1789-1890

HIST 422 Europe 1890-Present

HIST 440 History of Africa

RELI 360 Cross-Cultural Christian Outreach

RELI 460 Issues in Contemporary Missions

LITR 231 Masterpieces of World Literature, Western

LITR 232 Masterpieces of World Literature, Non-Western

PSCI 250 International Conflict and Peace

SOCI 380 Ethnic Groups and Social Minorities

FREN 495 Individual Research or Fieldwork (French)

SPAN 495 Individual Research or Fieldwork (Spanish)

International Studies With Religion Concentration

International studies is an interdisciplinary major designed for students with an interest in international vocations. Students taking this major as preparation for foreign missionary service 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.

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 (18–21 hours) includes:

LEAD 490 Leadership Seminar (four semesters, 1 hour per semester)

Either LEAD 475 Leadership Experience or an approved alternative practicum.

SOCI 300 Group Dynamics

One course taken from each of the following categories:

BUSN 300 Management

PSCI 410 Community Mediation

COMM 324 Argumentation and Critical Thinking

PSYC/SOCI350 Social Psychology

BUSN 480 Organizational Behavior

COMM 310 Conflict Resolution

PHIL 230 Ethics

LITR 360 Values and Myths in Literature

RELI 480 Spiritual Formation

MATHEMATICS

Mathematics Major (B.S.)

MAJOR REQUIREMENTS

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

MATH 201, 202, 301 Calculus I, II, III

MATH 290 Mathematical Logic

MATH 320 Linear Algebra

MATH 331 Probability

MATH 490 Senior Seminar

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Select 15 hours from the following:

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

Required supporting courses:

- CSIS 201 Introduction to Computer Science and one of:
 - CSIS 130 Web-based Programming
 - CSIS 202 Introduction to Computer Science
 - CSIS/MATH 300 Numerical Methods

MEDIA COMMUNICATION

See Communication Arts — Cinema and Media Communication, page 41.

MUSIC

Music Major (B.A.)

MAJOR REQUIREMENTS

The music major consists of a music core required of all majors, plus one of three concentrations: performance, preteaching, or theory/composition.

Music Core:

- MUSI 111 Introduction to Music Literature
- MUSI 121, 122 Theory I
- MUSI 131, 132 Sight Singing and Ear Training
- MUSI 180 Introduction to Music Technology
- Either MUSI 200 Basic Conducting or MUSI 460 Advanced Conducting, with permission
- MUSI 221, 222 Theory II
- MUSI 311, 312 Music History
- MUSI 320 Form and Analysis
- MUSI 400 Music and Christian Faith
- MUSI 492 Recital/Project

Performance Concentration

- (Total with Music Core: 47 hours)
- MUSA 105/305 Applied Music (eight semesters)
- MUSA 115-365 Large Ensemble (Wind Ensemble, University Choir, Chehalem Symphony, or Festival Chorus is required in addition to other ensembles)

Preteaching Concentration

- (Total with Music Core: 54 hours)
- The preteaching concentration in music prepares the student to take the Oregon Praxis Examination in music as preparation for application to George Fox University's



Master of Arts in Teaching Program or another similar program.

- EDUC 240 Perspectives in Education
- MUSI 270 Music Techniques
- MUSI 410 Elementary Music Methods
- MUSI 411 Middle Level and High School Music Methods
- MUSA 105/305 (Applied) and MUSA Ensemble credits to total 10 hours, with no fewer than four semesters in either area.

Composition Concentration

- (Total with Music Core: 54 hours)
- MUSI 310 Counterpoint
- MUSI 430 Instrumentation and Orchestration

A total of 8 hours of the following:

- MUSI 225 Composition (two semesters)
- MUSI 425 Composition (four semesters)

MUSA 105/305 (Applied) and MUSA Ensemble credits to total 10 hours, with no fewer than four semesters in either area.

Supportive Music Studies

Supportive music studies allow the student to choose an interest area with his or her advisor to pursue courses

that supplement the student's interest in performance, composition, or sacred music. The Fine Arts Handbook at the music office serves as a guide for student and advisor.

Music majors must be enrolled in a major ensemble each semester except during supervised teaching. A solo recital (or achievement of upper-division standing and appropriate departmental recitals) is required of all music majors. The recital is given in the junior or senior year after the student has been granted upper-division standing and has passed a recital hearing given before the applied music faculty.

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

Individual instruction is offered in piano, organ, strings, woodwinds, brass, percussion, and guitar. Private lessons carry one semester of credit except for students desiring a performance emphasis, for whom 2 hours of credit are given. Nonperformance majors may petition for 2 hours of credit with a recommendation by their applied music teacher. Music majors are required to enroll in applied music lessons each semester.

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

Music: Interdisciplinary Major (B.A.)

MAJOR REQUIREMENTS

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

Required music courses for an interdisciplinary major with religion include:

- MUSI 121, 122 Theory 1
- MUSI 200 Basic Conducting
- MUSI 220 Vocal Techniques
- MUSI 340 Church Music (History and Administration)
- MUSI 400 Music and Christian Faith

MUSI 492 Recital/Project

A major ensemble (four semesters)

Applied lessons (two semesters)

Music electives

ORGANIZATIONAL COMMUNICATION

See Communication Arts, page 41.

PEACE AND CONFLICT STUDIES

Peace Studies Minor

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

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

The course of study includes five components:

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

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

PHILOSOPHY

See Religion, page 54.

POLITICAL SCIENCE

Political Science Major (B.A.)

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.

- PSCI 150 Introduction to Political Science
- PSCI 250 International Conflict and Peace or PSCI 310 Conflict Resolution
- PSCI 320 Constitutional Law: Issues of National Power
- PSCI 475 Field Experience (only 6 hours of credit may count toward major)
- PSCI 490 Senior Seminar

At least five of the following courses:

- PSCI 190 American Government
- PSCI 220/420 War and Conscience in the United States
- PSCI 240 State and Local Government
- PSCI 250 International Conflict and Peace
- PSCI 260 Introduction to Law
- PSCI 280 Introduction to Political Philosophy
- PSCI 285/485 Selected Topics
- PSCI 300 American Political Theory
- PSCI 310 Conflict Resolution
- PSCI 340 International Relations
- PSCI 350 Seminar on the First Amendment
- PSCI 360 Criminal Rights and Equal Protection
- PSCI 370 American Political Theory
- PSCI 390 Peace Research
- PSCI 410 Community Mediation
- PSCI 430 Women and Politics in America
- PSCI 440 Christianity and Politics in America
- PSCI 450 Campaigns and Elections

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

- HIST 310 Herbert Hoover and His Times
- INTL 200 Cultural Geography
- ECON 340 Public Economics
- ECON 360 Global Political Economy
- COMM 380 Leadership Communication
- LEAD 490 Leadership Seminar
- SOCI 260 Social Theory
- SOCI 340/PSYC 340 Statistical Procedures (highly recommended)
- SWRK 461 Social Policy I
- SWRK 462 Social Policy II

PSYCHOLOGY

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

MAJOR REQUIREMENTS

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

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

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

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

Psychology Minor (17-18 Credits)

- PSYC 150 General Psychology
- PSYC 311 Human Development: Infants
- PSYC 450 Systems of Psychology

Select one concentration:

Experimental Psychology

Choose three of the following:

- PSYC 320, 350, 360, 370, 390, 400, 420, 460

Counseling/Clinical Psychology

Choose three of the following:

- PSYC 300, 330, 350, 381, 400, 420

Educational Psychology

Education majors must take EDUC 331 and 332 and choose one of the following:

- PSYC 300, 312, 330, 350, 360, 370, 381, 400

Educational Psychology — Noneducation Majors

Choose three of the following:

- PSYC 300, 312, 330, 350, 360, 370, 381, 400

RELIGION

Biblical Studies Major (B.A.)

MAJOR REQUIREMENTS

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

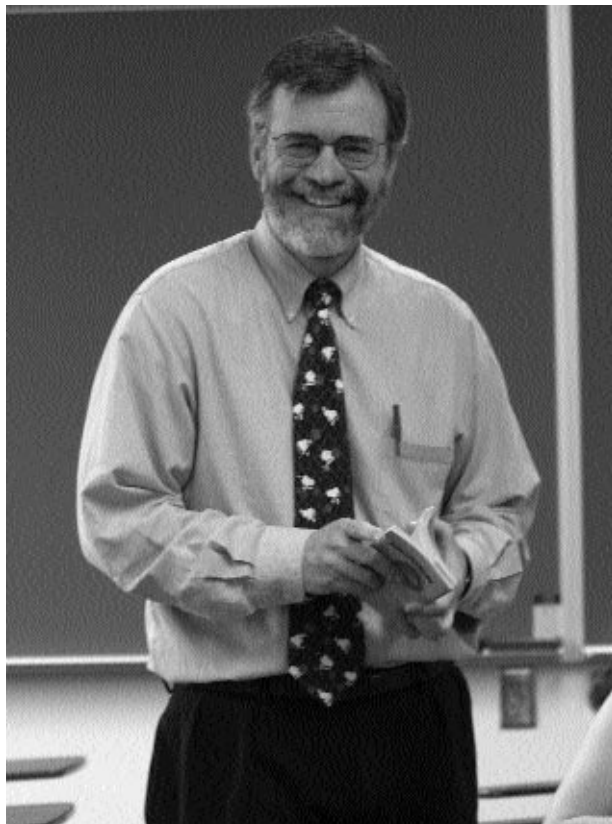
20 hours in biblical studies (GREK 202 may be applied as biblical studies credit)

6 hours in Christian ministries

8 hours in religion (including RELI 380 Christian Beliefs and either RELI 401 or RELI 402 Christianity in History)

6 hours in philosophy

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



Biblical Studies: Interdisciplinary Major (B.A.)

MAJOR REQUIREMENTS

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

Requirements for the biblical studies block:

10 hours in biblical studies

8 hours in religion, including RELI 380 Christian Beliefs

3 hours in philosophy

CHMN 360 Perspectives in Christian Education

Christian Ministries Major (B.A.)

MAJOR REQUIREMENTS

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

RELI 380 Christian Beliefs

RELI 401 or 402 Christianity in History

CHMN 130 Christian Discipling

CHMN 310 Theological Foundations of Christian Ministry

CHMN 360 Perspectives in Christian Education

5 hours of biblical studies

3 hours in philosophy

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

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

Youth Ministry Concentration

CHMN 330 Youth Leadership

CHMN 381 Counseling I

Either HHPE 380 Recreational Leadership or CHMN 370

Camp Programming and Counseling

PSYC 311 Human Development: Infancy to Adolescence

Missions Concentration

RELI 330 Introduction to the World Christian Movement

RELI 360 Cross-Cultural Christian Outreach

RELI 440 World Religions

RELI 460 Issues in Contemporary Missions

CHMN 475 Cross-Cultural Field Experience

Church Recreation Concentration

CHMN 370 Camp Programming and Counseling

CHMN 440 Camp Administration

CHMN 475 Field Experience in Church Recreation

HLTH 200 Lifestyle Management

HHPE 380 Recreational Leadership

Educational Ministry Concentration (Shared Praxis)

CHMN 391 Shared Praxis I: Introduction to Educational Ministry

CHMN 392 Shared Praxis II: The Christian Story and Vision

CHMN 491 Shared Praxis III: Methods and Skills in Ministry

CHMN 492 Shared Praxis IV: Supervised Field Experience

R

RELIGION

Christian Ministries: Interdisciplinary Major (B.A.)

MAJOR REQUIREMENTS

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

Requirements for the Christian ministries block:
12 hours in Christian ministries, including CHMN 130 Christian Discipling, and CHMN 360 Perspectives in Christian Education
6 hours in biblical studies
3 hours in philosophy
RELI 380 Christian Beliefs

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

Philosophy Major (B.A.)

MAJOR REQUIREMENTS

Philosophy majors take 33 semester hours in addition to PHIL 210 Introduction to Philosophy. 24 hours must be upper division.

Six courses are required of all majors:

- PHIL 210 Introduction to Philosophy
- PHIL 230 Ethics
- Either PHIL 340 Logic or COMM 324 Argumentation and Critical Thinking
- PHIL 380 History of Philosophy Survey
- PHIL 382 History of Philosophy Seminar (Prerequisite must be fulfilled by a philosophy course other than Logic)
- PHIL 410 Contemporary Philosophers and Problems (Prerequisite must be fulfilled by a philosophy course other than Logic)

Majors select a specialization track from these options:

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

At least four elective courses (12 hours) are selected from among:
COMM 324 Argumentation and Critical Thinking

- PHIL 340 Logic
- PHIL 260 Sociological Theory
- PHIL 270 Aesthetics
- PHIL 330 Philosophy of Religion
- LITR 360 Values Through Story and Myth
- PHIL 485 Special Topics
- PHIL 495 Special Study

Religion Major (B.A.)

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 CHMN 360 Perspectives in Christian Education
10 hours in religion, including RELI 380 Christian Beliefs, and RELI 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.

Religion: Interdisciplinary Major (B.A.)

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 RELI 380 Christian Beliefs
8 hours in biblical studies
3 hours in philosophy
CHMN 360 Perspectives in Christian Education

ROMANCE LANGUAGES

Romance Languages Minor (18 hours)

Prerequisites:

- FREN 201 and 202 Second-Year French or placement exam
- SPAN 201 and 202 Intermediate Spanish or placement exam

Requirements:

- FREN 301 Third-Year French
- FREN 302 Third-Year French
- SPAN 301 Advanced Spanish
- SPAN 302 Advanced Spanish

Either select two of the following:

- SPAN 350 Latin American Culture and Civilization
- SPAN 410 Introduction to Spanish Literature

SPAN 420 Introduction to Latin American Literature
Or enroll for six or more hours in:
SPAN 490 or FREN 490 Study Abroad
Credits abroad must be 300 level or above.

SOCIAL WORK

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

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.

Students interested in pursuing a degree in social work should consult with a social work advisor as soon as possible.

All students interested in social work as a major must make formal application to the program. Each applicant shall:

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

MAJOR REQUIREMENTS (45 hours required)

SWRK 180 Introduction to Social Welfare
SOCI 200 Social Issues
SOCI 260 Social Theory
SWRK 330 Human Behavior in the Social Environment

SOCI 340 Statistical Procedures
SOCI 390 Research Seminar
SWRK 391 Social Work Practice I
SWRK 392 Social Work Practice II
SWRK 393 Social Work Practice III
SWRK 461 Social Policy I
SWRK 462 Social Policy II
SWRK 475 Field Experience/Practicum I
SWRK 476 Field Experience/Practicum II
SWRK 477 Field Experience/Practicum III
SWRK 490 Senior Seminar

Required supporting courses (6 hours)

Either PSCI 150 Introduction to Political Science, PSCI 190 American Government, or PSCI 240 State and Local Government
SWRK 310 Life Span Human Development.

Required as part of the general education program:

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

SOCIOLOGY

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

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.

MAJOR REQUIREMENTS (39 hours required)

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

SPANISH

Spanish Major (B.A.)

The Spanish major is designed to move students toward advanced proficiency in the four skills (reading, writing, listening, and speaking) defined by the American Council on the Teaching of Foreign Languages (ACTFL). The program emphasizes the unique relationship between culture and language. Central to all course work is an examination of issues of faith and culture. In keeping with the mission of George Fox University, service components are required in some courses.

Advanced course work includes historically important works of literature and a survey of Iberian and Latin American history and culture. One semester studying abroad in a Spanish-speaking country is required to complete the Spanish major.

MAJOR REQUIREMENTS

Prerequisite for entry into the major: SPAN 202 or equivalent. Requirements for a major in Spanish consist of a minimum of 39 hours, to include the following courses:

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

Spanish Minor (18 hours)

Prerequisites:

SPAN 201 and 202 Intermediate Spanish (or equivalent)

Choose one of the following options.

Option 1. Take 18 hours of the following:

- SPAN 301 Advanced Spanish
- SPAN 302 Advanced Spanish
- SPAN 340 Spanish Culture and Civilization
- SPAN 350 Latin American Culture and Civilization
- SPAN 410 Introduction to Spanish Literature
- SPAN 420 Introduction to Latin American Culture

Option 2

Take 16 credit hours in an approved study abroad program in a Spanish-speaking country.

SPAN 375 Field Experience: Study Abroad (taken concurrently with SPAN 490)

SPAN 490 Study Abroad (16 hours minimum)

Credits abroad must be at 300 level or above.



TEACHER EDUCATION

Policies and Procedures

The teacher education program at George Fox University is designed to prepare teachers for careers in public and private schools through a curriculum that builds on a broad foundation in Christian liberal arts education through specialization in elementary education with methods, clinical studies in teaching, and learning theory.

Teacher education and licensure in Oregon operates under the approved program approach. Teaching licenses are issued to qualified applicants who have completed a teacher education program approved by the Oregon Teacher Standards and Practices Commission (TSPC), and who are able to satisfy other state requirements in effect at the time they complete graduation requirements and apply for a teaching license.

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

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 (M.A.T.) Program 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*.)

Admission to Teacher Education

Students wishing to explore or prepare for entering a teaching career at the elementary level should consult with a teacher education advisor early in their freshman year.

Students make formal application for admission to the teacher education program during the introductory education class, EDUC 240 Perspectives in Education, 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; and exemplary social and moral behavior. In addition, an admission interview may also be conducted. Admission to the program is required before students may register for the professional education core courses.

Continuation in teacher education is based on academic achievement and satisfactory evidence of characteristics needed for successful performance in the teaching profession. Students admitted to the 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 EDUC 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 teacher 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:

- EDUC 240 Perspectives in Education
- EDUC 311 or 312 Mathematics for Elementary Teachers
- EDUC 370 Integrated Methods: Music and Art
- EDUC 375 Student Teaching I

EDUC 380 Integrated Methods: Science and Social Studies

EDUC 401 Integrated Methods: Literature and Language

EDUC 402 Integrated Methods: Literature and Literacy

EDUC 475 Student Teaching II

EDUC 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 University and the student's professional education courses with a GPA of 2.75 or better.

Special Students: Teaching Credential Only

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

Admission to Student Teaching

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

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

Planning the Program

Students should plan to finish their general education requirements and some of their lower-level teaching major requirements during their first two years of college. Professional courses in education and the advanced teaching major course requirements should be completed during the last two years. Some of these courses, listed under Transfer Students in Education, must be taken in residence, and professional education courses must be taken before student teaching.

The Oregon Teacher Standards and Practices Commission requires that candidates for teaching licenses have passed certain standardized tests. These are taken by students in conjunction with their professional courses. Students must complete the bachelor's degree and meet all state requirements before being recommended for teaching licensure.

Waiver of Requirements

Students enrolled in the teacher education program who believe they have had experience or education that has provided the competencies certain courses and experiences in the program are designed to develop may request a waiver of that portion of the requirements. Waivers may be granted in writing by the director of undergraduate teacher education on the basis of satisfactory evidence submitted by the student through one or more of these means:

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

Elementary Education Major (B.S.)

The University offers a degree program for the preparation of elementary school teachers. Upon entering, students interested in majoring in elementary education should contact an elementary education advisor. In addition to general education courses and electives (see page 28), the elementary education major requires the following courses:

MAJOR REQUIREMENTS

- Requirements for a bachelor of science degree in elementary education include the following courses:
- EDUC 240 Perspectives in Education
 - EDUC 311, 312 Mathematics for Elementary Teachers
 - EDUC 331 Psychological Foundations: Inclusion
 - EDUC 332 Psychological Foundations: Learning Theory and Classroom Management
 - EDUC 333 Developmental Health and Physical Education
 - EDUC 370 Integrated Methods: Music and Art
 - EDUC 375 Student Teaching I
 - EDUC 380 Integrated Methods: Science and Social Studies

- EDUC 401 Integrated Methods: Literature and Language
- EDUC 402 Integrated Methods: Literature and Literacy
- EDUC 475 Student Teaching II
- EDUC 490 Senior Seminar
- GEOG 200 Cultural Geography and Global Relationships
- HLTH 310 School Health Program
- PSYC 311 Human Development: Infancy to Adolescence

Elementary and Early Childhood Authorization

- All of the above plus
- EDUC 321 Early Childhood Education
- EDUC 322 Early Childhood Methods

Elementary and Middle Level Authorization

- All of the above plus
- EDUC 351 Middle Level Education
- EDUC 352 Middle Level Methods

**TEACHING ENGLISH TO
SPEAKERS OF OTHER
LANGUAGES (TESOL)**

TESOL Minor (19-21 hours)

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

Note: Students interested in pursuing TESOL as a profession should continue their studies at the graduate level. A master's degree program is recommended for those interested in teaching at a college or community college. Meeting state requirements for teaching in public schools requires an ESOL/Bilingual Endorsement, as described in the Educational Foundations and Leadership section of the *George Fox University Graduate Catalog*.

- SOCI 310 Cultural Anthropology
- Either COMM 340 General and Cultural Linguistics or
- EDFL 470 Applied English Linguistics: Oral and Literacy Focus

Either COMM 350 Introduction to TESOL or EDFL 473 Planning and Managing ESOL Curriculum and Instruction

Either RELI 360 Cross-Cultural Christian Outreach or EDFL 472 Intercultural Communication in the ESOL Context

Either EDFL 471 Second Language Acquisition and Development or EDFL 474 Assessing ESOL Student Learning and Language Proficiency

One year of a foreign language

TESOL Minor Elective

COMM 475 TESOL Field Experience



THEATRE

see Communication Arts, page 41.

WRITING/LITERATURE

Writing/Literature Major (B.A.)

MAJOR REQUIREMENTS

The department offers a writing/literature major that creatively combines both disciplines while allowing students freedom to pursue their primary interest. The

major consists of 39 semester hours (not including WRIT 110 Freshman Composition) distributed as follows:

Literature Core

LITR 350 Literary Criticism

Two of the following three courses:

LITR 240 Understanding Drama

LITR 340 Poetry

LITR 440 Modern Novel

Two of the following three sequences:

LITR 231, 232 Masterpieces of World Literature

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

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

Writing Core

WRIT 200 Understanding Literature

WRIT 230 Introduction to Journalism

One of the following three courses:

WRIT 330 Writing for Publication

WRIT 360 Writing Fiction

WRIT 370 Writing Poetry

Electives

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

Writing Minor

The department also offers two

minors, each consisting of 18 hours (not including

WRIT 110):

WRIT 200

WRIT/LITR electives

WRIT electives

Literature Minor

WRIT 200

WRIT/LITR electives

LITR electives above the 300 level

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V COURSE DESCRIPTIONS



*“The mind is not a vessel to be filled,
but a fire to be kindled.”*

— Plutarch

COURSES

Subject	Course Prefix	Page
Accounting . . . . .	.ACCT . . . . .	.65
American Sign Language . . . . .	.AMSL . . . . .	.66
Art . . . . .	.ARTS . . . . .	.66
Biblical Studies . . . . .	.BIBL . . . . .	.68
Biology . . . . .	.BIOL . . . . .	.69
Business . . . . .	.BUSN . . . . .	.71
Chemistry . . . . .	.CHEM . . . . .	.72
Christian Ministries . . . . .	.CHMN . . . . .	.74
Cinema and Media Communication . . . . .	.CMCO . . . . .	.75
Communication Arts . . . . .	.COMM . . . . .	.76
Computer and Information Science . . . . .	.CSIS . . . . .	.78
Economics . . . . .	.ECON . . . . .	.80
Education . . . . .	.EDUC . . . . .	.80
Engineering, Electrical . . . . .	.ENGE . . . . .	.82
Engineering, Mechanical . . . . .	.ENGM . . . . .	.83
Engineering, General . . . . .	.ENGR . . . . .	.85
English as a Second Language . . . . .	.ESLA . . . . .	.86
Family and Consumer Sciences . . . . .	.FCSC . . . . .	.87
French . . . . .	.FREN . . . . .	.89
General Education . . . . .	.GEED . . . . .	.90
Geography . . . . .	.GEOG . . . . .	.90
German . . . . .	.GERM . . . . .	.90
Greek . . . . .	.GREK . . . . .	.91
General Science . . . . .	.GSCI . . . . .	.91
Hebrew . . . . .	.HEBR . . . . .	.91
Human Performance Activity . . . . .	.HHPA . . . . .	.91
Human Performance Education . . . . .	.HHPE . . . . .	.91
History . . . . .	.HIST . . . . .	.94
Health Education . . . . .	.HLTH . . . . .	.96
International Studies . . . . .	.INTL . . . . .	.97
Japanese . . . . .	.JPNS . . . . .	.98
Leadership Studies . . . . .	.LEAD . . . . .	.98
Literature . . . . .	.LITR . . . . .	.98
Mathematics . . . . .	.MATH . . . . .	.99
Music, Applied Music and Ensembles . . . . .	.MUSA . . . . .	.100
Music, Theory and Literature . . . . .	.MUSI . . . . .	.102
Philosophy . . . . .	.PHIL . . . . .	.104
Physics . . . . .	.PHYS . . . . .	.105
Political Science . . . . .	.PSCI . . . . .	.105
Psychology . . . . .	.PSYC . . . . .	.107
Religion . . . . .	.RELI . . . . .	.109
Sociology . . . . .	.SOCI . . . . .	.110
Spanish . . . . .	.SPAN . . . . .	.112
Social Work . . . . .	.SWRK . . . . .	.113
Theatre . . . . .	.THEA . . . . .	.115
Writing . . . . .	.WRIT . . . . .	.116

Courses are listed alphabetically by prefix.

ACCOUNTING

Additional courses are listed under Business and Economics.

ACCT 271 Principles of Financial Accounting

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

ACCT 272 Principles of Managerial Accounting

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

ACCT 273 Accounting Information Systems

2 hours. This course will emphasize the mechanical aspects of accounting and will cover both manual and computerized accounting systems. *The course is designed for the accounting major and is to be taken concurrently with ACCT 272 Principles of Managerial Accounting. Prerequisite: ACCT 271 Principles of Financial Accounting.*

ACCT 275 Field Experience

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

ACCT 350 Taxation

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

ACCT 371, 372 Financial Accounting and Reporting

4 hours each semester. A comprehensive study of generally accepted accounting principles, including a review of their historical development and a thorough study of the underlying theory supporting them. A detailed study of many specific problems associated with the measurement and reporting of complex business transactions. *Prerequisites: ACCT 272 Principles of Managerial Accounting and ACCT 273 Accounting Information Systems.*



ACCT 471 Advanced Accounting

4 hours. Accounting for specific types of entities, such as partnerships and not-for-profit organizations. The accounting problems encountered in business combinations and foreign currency translation will be studied. *Prerequisites: ACCT 272 Principles of Managerial Accounting and ACCT 273 Accounting Information Systems.*

ACCT 472 Auditing

4 hours. An introduction to the standards and procedures observed by Certified Public Accountants in the examination of financial statements. Special areas of study will include evaluation of internal control, ethical considerations, legal environment, the auditor's reports, and evidence-collecting and evaluation. *Prerequisites: ACCT 272 Principles of Managerial Accounting and ACCT 273 Accounting Information Systems.*

ACCT 475 Field Experience

1–6 hours. Supervised experiences in businesses, non-profit organizations, and public.

ACCT 485 Selected Topics

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

ACCT 495 Special Study

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

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AMERICAN SIGN LANGUAGE

AMSL 101, 102 American Sign Language

2 hours each semester. Offered 2003-04. An introduction to American Sign Language (ASL), the language of the deaf culture in the United States and Canada. The course introduces ASL signs and basic ASL grammar and syntax, and develops an understanding and appreciation of the adult deaf culture. Receptive and expressive skills in conversational ASL are taught. Practice outside the classroom required.

ART

ARTS 101, 102 Basic Design

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

ARTS 111, 112 Drawing

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

ARTS 201 Beginning Painting

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

ARTS 216 Art History Survey to 1600

2 hours. A survey of the elements and concepts of art theory and practice as reflected in culturally and historically significant painting, sculpture, architecture, and other art forms, from prehistoric times to 1600.

ARTS 217 Art History Survey From 1600

2 hours. A survey of the elements and concepts of art theory and practice as reflected in culturally and historically significant painting, sculpture, architecture, and other art forms, from 1600 to the present.

ARTS 221 Beginning Sculpture

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

ARTS 230 Beginning Photography

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

ARTS 231 Beginning Printmaking

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

ARTS 240 Beginning Mixed Media

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

ARTS 241 Beginning Ceramics

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



ARTS 250 Introduction to Graphic Design

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

ARTS 265 Contemporary Art Seminar

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

ARTS 285 Selected Topics

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

ARTS 301 Intermediate Painting

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

ARTS 321 Intermediate Sculpture

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

ARTS 330 Intermediate Photography

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

ARTS 331 Intermediate Printmaking

3 hours. An introduction to intaglio printmaking (etching, engraving, drypoint, aquatint) techniques and methods. *Prerequisite: ARTS 231 Beginning Printmaking.*

ARTS 340 Intermediate Mixed Media

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

ARTS 341 Intermediate Ceramics

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

ARTS 350 Graphic Design 2: Typography

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

ARTS 360 Illustration

3 hours. Introduction of traditional illustration and commercial rendering techniques. Students will refine expressive, observational, and technical drawing, painting, and marker skills as they relate to illustration as a means of visual communication. *Prerequisite: ARTS 111 Drawing or ARTS 112 Drawing and ARTS 250 Introduction to Graphic Design.*

ARTS 381 Baroque and Rococo Art

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

ARTS 382 Twentieth-Century Art

3 hours. Offered 2003-04. Art and its relationship to Western culture of the 20th century.

ARTS 383 History of Visual Communications

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

ARTS 385 Special Topics in Art History

3 hours. Offered 2002-03. Art and its relationship to a non-Western culture, e.g., African, Asian, Latin American. Specific topic will be dependent on the instructor's area of specialization.

ARTS 401 Advanced Painting

3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. *Prerequisite: ARTS 301 Intermediate Painting.*

ARTS 421 Advanced Sculpture

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

ARTS 431 Advanced Printmaking

3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. *Prerequisite: ARTS 331 Intermediate Printmaking.*

ARTS 441 Advanced Ceramics

3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. *Prerequisite: ARTS 341 Intermediate Ceramics.*

ARTS 450 Graphic Design 3: Design Applications

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

ARTS 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: ARTS 450 Graphic Design 3: Design Applications, or by permission.*

ARTS 460 Art and Christ

3 hours. Offered 2003-04. A study of the relationship between art and Christianity in the contemporary world. Designed primarily for studio art majors. *Prerequisites: ARTS 381 Baroque and Rococo Art, or ARTS 382 Twentieth-Century Art, or ARTS 385 Special Topics in Art History, and junior or senior standing.*

ARTS 475 Field Experience

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

ARTS 490 Senior Thesis Exhibit

3 hours. All students graduating with a major in art will be required to exhibit their work in the Lindgren Gallery or other acceptable alternative location. This course includes the completion of a body of artwork for

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exhibition, writing a statement of artistic intent, and installing artwork in an exhibition space. Majors may petition to substitute ARTS 475 for ARTS 490.

Prerequisite: art major with senior standing, or by permission.

ARTS 295/495 Special Study

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

BIBLICAL STUDIES

BIBL 101, 102 Literature of the Old and New Testaments

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

BIBL 240 Wisdom Literature

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

BIBL 250 The Psalms

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

BIBL 260 Life of Christ

2 hours. The Synoptic Gospels — Matthew, Mark, and Luke — form the foundation for this inquiry into the life and teaching of Jesus Christ. *Taking BIBL 102 Literature of the New Testament first is recommended.*

BIBL 270 Writings of John

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

BIBL 310 Old Testament History

3 hours. Offered 2003-04. The history of ancient Israel is studied employing the text of the Old Testament narratives in Genesis through Esther, the evidence of archaeology, and other ancient Near Eastern texts. Theological messages and developments will be explored. *Prerequisite: BIBL 101 Literature of the Old Testament.*

BIBL 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: BIBL 101 Literature of the Old Testament.*

BIBL 340 Between the Testaments

3 hours. Offered 2003-04. 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: BIBL 101, 102 Literature of the Old and New Testaments.*

BIBL 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: BIBL 101 and 102 Literature of the Old and New Testaments, or by permission.*

BIBL 390 Biblical Basis for Peacemaking

2 hours. Offered 2003-04. Focusing centrally on Jesus' teachings about peacemaking, this course deals with the biblical treatment of peacemaking, including the prophetic and apocalyptic visions of the kingdom, and the interpretations of these teachings by the early church. Attention also will be given to what it means to work for peace in today's world, as co-laborers with Christ. *Prerequisite: BIBL 102 Literature of the New Testament.*

BIBL 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: BIBL 102 Literature of the New Testament.*



BIBL 480 General Epistles

2 hours. Offered 2002-03. As a study of the non-Pauline letters of the New Testament — Hebrews, James I and II, Peter, and Jude — this course explores the character of Jewish Christianity and its implications for the broader church. *Prerequisite: BIBL 102 Literature of the New Testament.*

BIBL 495 Special Study

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

BIOLOGY

BIOL 100 Foundations of Biology

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

BIOL 101, 102 General Biology

4 hours each semester. An introduction to life science for those majoring in biology and bioscience-related fields. Topics include cellular biology, genetics, systemat-

ics, development, ecology, and anatomy and physiology of plants and animals. Three lectures and one two-hour laboratory per week.

BIOL 221, 222 Human Anatomy and Physiology

4 hours each semester. Structure and function of the human body. Fall semester topics include basic chemistry, body organization, integument, skeleton, muscles, and the nervous system, including special senses. Spring semester topics include cardiovascular, reproductive, endocrine, respiratory, urinary, and digestive systems. The course meets general education requirements and is designed for nonscience majors. Three lectures and one laboratory per week. BIOL 222 may be taken without BIOL 221.

BIOL 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.

BIOL 300 Evolution

2 hours. Offered 2003-04. 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.

BIOL 310 Developmental Biology

4 hours. Theories and study of differentiation as they apply to growth and development of animals, with some emphasis on the mechanism involved. Includes historical topics, fertilization, embryonic organization, cell induction, histogenesis, organogenesis, and developmental morphogenesis of echinoderms, frogs, chicks, and pigs. Three lectures and one three-hour laboratory per week. *Prerequisites: BIOL 101, 102 General Biology.*

BIOL 322 Comparative Vertebrate Anatomy

4 hours. Offered 2003-04. 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: BIOL 101, 102 General Biology.*

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BIOL 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: BIOL 101, 102 General Biology.*

BIOL 340 Plant Physiology

4 hours. Offered 2003-04. 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: BIOL 101, 102 General Biology.*

BIOL 350 Genetics

4 hours. A general genetics course covering Mendelian genetics, population genetics, and an introduction to molecular biology. This course fulfills the requirement for biology majors, and is appropriate for those with an interest in current topics in genetics, including inheritable diseases, cloning, and other recent scientific breakthroughs. Three lectures and one three-hour laboratory per week. *Prerequisites: BIOL 101, 102 General Biology.*

BIOL 360 Ecology

4 hours. An analysis of population, community, and ecosystem dynamics. Laboratory will emphasize field measurements, computer modeling, and behavior. Three lectures and one three-hour laboratory per week, and one required field trip to the Malheur Field Station. Fee required. *Prerequisites: BIOL 101, 102 General Biology.*

BIOL 370 Microbiology

4 hours. A course in the structure, metabolism, classification, and health aspects of microorganisms. Methods of microbiological investigation are emphasized. Three lectures and one three-hour laboratory period per week. *Prerequisites: BIOL 101, 102 General Biology, or permission of course instructor.*

BIOL 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: BIOL 101, 102 General Biology.*

BIOL 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 CHEM 384. Substitutes for 1 hour of Senior Seminar. One lecture per week.

BIOL 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: BIOL 101, 102 General Biology.*

BIOL 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 subdiscipline of biology. Three lectures and one four-hour laboratory per week. *Prerequisites: BIOL 350 Genetics and CHEM 325 Organic Chemistry.*

BIOL 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: BIOL 101, 102 General Biology, and CHEM 325 Organic Chemistry. CHEM 340 Biochemistry is suggested.*

BIOL 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: BIOL 101, 102 General Biology.*

BIOL 460 Invertebrate Zoology

4 hours. Offered 2003-04. 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: BIOL 101, 102 General Biology.*

BIOL 485 Selected Topics

1–4 hours. Offered when special needs arise or when sufficient enrollment permits. Course content includes specific interests of faculty or visiting professors, or special training required by graduate or professional schools. *Prerequisites: BIOL 101, 102 General Biology and permission of instructor.*

BIOL 491, 492 Senior Seminar

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

BIOL 495 Biological Research

1–4 hours. Specific instructional programs, laboratory or field research, or independent study as planned under an advisor. A total of not more than 4 hours may be applied toward the major. *For upper-division biology majors only. By permission.*

BIOL 496 Senior Thesis

1 hour. An independent study course for completion of a senior thesis. Required for all thesis-track majors in their senior year. Substitutes for BIOL 491 or 492 Senior Seminar.

BUSINESS

Additional courses are listed under Accounting and Economics.

BUSN 110 Introduction to Business

3 hours. This introductory survey will examine the major functional areas of business and afford the student an opportunity to consider this major as a path to a career. Emphasis is given to contemporary business concepts, in particular and examination of business as a field for stewardship.

BUSN 240 Statistics for Business and Economics

3 hours. Statistical procedures with applications in management and economics. Emphasis on the development of a basic knowledge of the statistical tools available for analysis of problems and decision making. *Prerequisite: High school algebra or equivalent.*

BUSN 275 Field Experience

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

BUSN 300 Management

3 hours. A study of the theory and practice of management. The course involves discussion and application of areas such as social responsibility, strategy, problem

solving, communication, change, job performance, and financial/operational controls. *Prerequisite: BUSN 110 Introduction to Business.*

BUSN 310 Financial Management

3 hours. An introduction to the finance function of a business entity. Specific topics to be studied include capital budgeting, cost of capital determination, sources of financing, leverage and its effect on the profits and risk of business, and managing the asset mix and capital structure of a business. *Prerequisites: ACCT 272 Principles of Managerial Accounting and BUSN 240 Statistics for Business and Economics.*

BUSN 340 Marketing

3 hours. Study of the marketing concept, consumer demand and behavior, and marketing functions of the firm. The objective is to understand the development of marketing channels, products, prices, and promotion strategies. *Prerequisite: BUSN 110 Introduction to Business.*

BUSN 360 Business Law

3 hours. Covers the legal aspects of common business transactions. Includes the law of contracts, agency, negotiable instruments, and other phases of private law.

BUSN 380 Information Systems

3 hours. An introduction to systems and development concepts, information technology (IT), and application software. Explanation of how information is used in organizations and how IT enables improvement in quality, timeliness, and competitive advantage. Examination of the changing role of digital information in society. Introduction to concepts of networking and telecommunications. *Prerequisite: BUSN 110 Introduction to Business.*

BUSN 420 Marketing Communication and Strategy

4 hours. Consideration of promotional strategies, with particular emphasis on evaluation and selection of advertising media, public relations, selling, and management of the promotion mix. Investigation of the international aspects of marketing to include importing, exporting, and the role of multinational firms. *Prerequisite: BUSN 340 Marketing.*

BUSN 440 International Management

4 hours. Managing and organizing global operations, with attention to both multinational corporations and nonprofit organizations. Consideration will be given to the strategy and structure of international business, the practices of international commerce, the challenges of living and working in other cultures, and career development in a global context. *Prerequisite: completion of the functional core in business.*

BUSN 450 Marketing Research and Decision Making

4 hours. Research methods for marketing decisions. Topics include defining research needs, the formulation of research questions, consideration of alternative methodologies, sources of data and information, sampling, and interpretation and reporting of findings. Consideration of strategies for decision making relative to the marketing mix. Examination of forecasting, pricing, and decision-making models. *Prerequisites:* BUSN 240 *Statistics for Business and Economics*, BUSN 340 *Marketing*.

BUSN 471 Finance I — Investments, Financial Markets, and Institutions

4 hours. Topics will include: 1) investments — stock and bond valuation, market efficiency, modern portfolio theory, asset allocation, and risk and return evaluation; 2) portfolio simulation; and 3) role and management of financial intermediaries including the U.S. banking system and other depository institutions. *Prerequisite:* BUSN 310 *Financial Management*.

BUSN 472 Finance II — Advanced Corporate Finance

4 hours. Topics will include: 1) short-term working capital management, such as cash and marketable securities, accounts receivable, inventory, and sources of short-term financing; and 2) long-term financial decisions such as capital structure, dividend policy, sources of long-term financing. The emphasis will be on case analyses. *Prerequisite:* BUSN 310 *Financial Management*.

BUSN 475 Field Experience

1–6 hours. Supervised experiences in businesses, non-profit organizations, and public agencies.

BUSN 480 Organizational Behavior

4 hours. This course examines the complex and dynamic interactions of people and organizations in society. Particular focus will be on organizational theory, human perception, motivation, group dynamics, power, conflict, culture, leadership, organizational development, and managing change. *Prerequisite:* Completion of the *functional core in business*.

BUSN 485 Selected Topics

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

BUSN 490 Senior Capstone Course

4 hours. A final senior course concerned with the dynamics of strategic management. Specific focus will be on thinking strategically, managing change within the organizational culture, and developing leadership skills. The course is highly integrative in nature, incorporating many of the integral components of marketing, accounting, finance, economics, and management. Students will

form consulting teams to work with a business to develop a comprehensive strategic plan. *Prerequisite:* completion of the *functional core in business*.

BUSN 495 Special Study

1–3 hours. Independent study of subjects outside regular offerings of particular interest to business and economics majors. Regular reading reports and conferences are scheduled. *For upper-division business and economics majors only. By permission.*

CHEMISTRY**CHEM 100 Chemistry of Life**

3 hours. This course will cover concepts of organic and biochemistry at an elementary level. Emphasis will be placed on medical and biological applications of chemical principles. Topics will include acids and bases, alcohols, carbohydrates, proteins, lipids, and metabolism. This course meets general education requirements and is designed for nonscience majors. Two lectures and one laboratory period per week.

CHEM 110 Chemistry and Our Environment

3 hours. This course will cover introductory concepts of chemistry. Special attention is given to topics of current interest, such as environmental chemistry, polymer chemistry, and household chemistry. This course meets general education requirements and is designed for nonscience majors. It is recommended for students who need an introduction to chemistry prior to taking CHEM 211 General Chemistry. Two lectures and one laboratory per week.

CHEM 151, 152 General, Organic, and Biological Chemistry

4 hours each semester. This course covers introductory and intermediate principles of chemistry. Special emphasis is placed on those aspects of general and organic chemistry that are pertinent to biochemistry. This course provides a background for students with interests in prenursing, nutrition, and related allied health areas. (This course does not meet the requirements for science majors.) Three lectures and one two-hour laboratory per week.

CHEM 211, 212 General Chemistry

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



CHEM 310 Analytical Chemistry

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

CHEM 320 Advanced Inorganic Chemistry

3 hours. Offered 2003-04. 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: CHEM 211, 212 General Chemistry.*

CHEM 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: CHEM 211, 212 General Chemistry.*

CHEM 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: CHEM 325, 326 Organic Chemistry.*

CHEM 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 BIOL 384. One lecture per week.

CHEM 390 Organic Synthesis and Analysis

3 hours. Offered 2003-04. 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: CHEM 325, 326 Organic Chemistry.*

CHEM 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: CHEM 111, 112 General Chemistry, MATH 301 Calculus III, and either PHYS 202 General Physics or PHYS 212 General Physics With Calculus.*

CHEM 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.

CHEM 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: CHEM 325, 326 Organic Chemistry.*

CHEM 475 Field Experience

1-3 hours. Supervised experience with an off-campus industry or agency using applied chemistry. *Prerequisite: instructor's permission.*

CHEM 485 Selected Topics

1-4 hours. Scheduled as a regular class with topics chosen to meet the special needs and interests of stu-

dents, faculty, or visiting professors. *Prerequisite: upper-division standing.*

CHEM 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: CHEM 384 Research Methods.*

CHRISTIAN MINISTRIES

CHMN 130 Christian Discipling

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

CHMN 230 The Christian and the Outdoors

3 hours. Offered 2003-04. 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. (Identical to HHPE 230.)

CHMN 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.

CHMN 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.

CHMN 330 Youth Leadership

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

CHMN 360 Perspectives in Christian Education

3 hours. A study of the historical background and philosophical development in Christian education, with an examination of the influence of these antecedents

upon theory and practice. Contemporary trends in current and emerging ministries will be assessed against such perspectives.

CHMN 370 Camp Programming and Counseling

3 hours. Offered 2003-04. 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 HHPE 370.)

CHMN 381 Counseling

3 hours. A study of theory and technique of person-centered counseling. The course is designed to teach basic theoretical postulates and to focus on effective intervention skills for those anticipating future work in Christian ministries, teaching, or mental health settings. (Identical to PSYC 381.) *Open to sophomores and above. Prerequisite: PSYC 150 General Psychology.*



CHMN 391 Shared Praxis I: Introduction to Educational Ministry

4 hours. An exploration of an individual's call to ministry and a study of present praxis in Christian educational ministry, with emphasis on storytelling and community building. This is the first of four semesters. *Department interview required. Prerequisite: sophomore or junior standing and approval by department.*

CHMN 392 Shared Praxis II: The Christian Story and Vision

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

CHMN 420 Christian Preaching

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

CHMN 440 Camp Administration

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

CHMN 475 Field Experience

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

CHMN 491 Shared Praxis III: Methods and Skills in Ministry

4 hours. A study of ministry methods and skills that will enable students to appropriate the Christian story and vision to their own ministry contexts. This is the third of four semesters. *Prerequisite:* CHMN 392 *Shared Praxis II: The Christian Story and Vision.*

CHMN 492 Shared Praxis IV: Supervised Field Experience

4 hours. Active involvement in an area of Christian ministry through supervised experience, and reflection on ministry experiences through class support and discussion. This is the fourth of four semesters. *Prerequisite:* CHMN 491 *Shared Praxis III: Methods and Skills in Ministry.*

CHMN 495 Special Study

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

CINEMA AND MEDIA COMMUNICATION

CMCO 230 Introduction to Video Production

3 hours. An introduction to the language and the technical, creative, and aesthetic elements of the video production process. Course includes basic lighting, sound, camera operation, composition, and design of visual elements, producing, and directing through both classroom and supervised laboratory experiences.

CMCO 250 Digital Multimedia Production

3 hours. The focus of the course is on effective communication strategies of interactive media as traditional

media converges on the digital platform. Special attention will focus on designing nonlinear programs that allow flexible paths accessing information. Students will have the opportunity to experiment with creating media elements (audio, video, graphics, photography, and text) and organizing them into interactive CDs and Internet Web pages.

CMCO 260 Scriptwriting for Media

3 hours. Offered 2002-03. An introduction to the styles, techniques, content, and forms of television writing. Both dramatic (sitcom and dramatic features) and nondramatic (news and informational) forms of writing are covered. The writing of several short scripts is required in the course. *Prerequisite:* WRIT 110 *Freshman Composition.*

CMCO 295 Broadcast News

3 hours. Offered 2003-04. Striking a balance between analysis and production, Broadcast News looks at the historical roots and current trends of television news. Students put this analytical knowledge to the test in producing their own news stories to air on cable TV.

CMCO 320 Dramatic Scriptwriting

3 hours. Offered 2003-04. An introduction to the art of writing for film. Dramatic structure is emphasized and plot scenarios, dialogue, and characterization are among several topics examined and exercised. Students create original feature length films or plays. The writing experience is complemented through an examination of the business aspects of writing, including spec-scripts, agents, and the Hollywood system.

CMCO 340 Audio Production and Broadcasting

3 hours. Offered 2002-03. Concentrating on recording, editing, and mixing multitrack audio on a digital platform. The course will look at special recording techniques used for (a) human voices in speaking, singing, and dramatic performance, (b) musical instruments, and (c) dramatic sound effects. Students will complete projects in editing and mixing of multitrack sound programs.

CMCO 350 Editing Video

3 hours. Offered 2002-03. Theory and practice in editing the moving image. Analysis of Hollywood and avant-garde styles of editing is followed by practice exercises illustrating each concept.

CMCO 355 Event Video Production

3 hours. This course concentrates on live multicamera production of sporting, theatrical, and entertainment events. The course concentrates on producing and directing components, but also features setting up multicamera remote systems for video broadcast.

CMCO 430 Producing and Directing Video

3 hours. Offered 2003-04. An advanced course in video directing and producing. Students explore the process of preproduction, production and postproduction of original short feature videos for the Fox Film Festival, working as either producer or director. Additionally, short documentaries are completed for television broadcast. *Prerequisite: instructor's permission.*

CMCO 475 Field Experience

3-10 hours. An internship experience designed to give students an opportunity to practice video and film techniques and principles in an off-campus, professional setting. Students choose from a variety of options — cable, broadcast, corporate, medical, or commercial production facilities — based on the student's goals and interests. Up to 3 hours may apply to the communication media major. *Prerequisite: instructor's permission.*

CMCO 495 Independent Study

1-3 hours. Individual study in an area of special interest to the student. Offered to exceptional students at the discretion of a faculty member.

COMMUNICATION ARTS

COMM 100 Introduction to Communication

3 hours. An introduction to the study of human communication. Application of communication principles to interpersonal, group, and public contexts. Particular emphasis on the practice of public speaking. Students will prepare and deliver several oral presentations.

COMM 200 Persuasive Communication

3 hours. A presentation of key principles of persuasion as they are reflected in typical organizational communication contexts. Focus on developing a planning sequence that will function as a practical guide for designing, executing, and evaluating communication events. Students will be expected to develop a "real world" communication event, e.g., publicity campaign, speech, newsletter. *Prerequisite: COMM 100 Introduction to Communication, or equivalent.*

COMM 210 Interpersonal Communication

3 hours. Theoretical and reflective study and guided experience in dyadic and small-group communication, with attention given to interpersonal communication, listening behavior, nonverbal communication, and conflict resolution. *Prerequisite: COMM 100 Introduction to Communication, or equivalent.*

COMM 230 Mass Media and Popular Culture

3 hours. Survey of the historical development of newspapers, magazines, broadcast media, and cinema.

Analysis of the role(s) of mass media in shaping and altering opinion and values in contemporary culture.

COMM 275/475 Field Experience

1-10 hours. Experience in supervised field situations, generally off campus, involving extensive communication activity. Pass/no pass only. *Admission to course and amount of credit determined by the faculty supervisor.*

COMM 285/485 Selected Topics

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

COMM 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 COMM 100 Introduction to Communication.*

COMM 305 Professional Communication Activities

1-3 hours. Offered each term. Structured to give students experience in "real world" communication events, generally on campus. May be repeated for a maximum of 6 hours total. (Pass/no pass only.) *Prerequisite: instructor's permission.*

COMM 310 Conflict Resolution

3 hours. Offered 2003-04. 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 PSCI 310.)

COMM 320 Introduction to Public Relations

3 hours. A course designed to introduce and develop a clear concept of public relations as a communication profession. Topics to be covered include the function of public relations in both public and private enterprises; the process of planning and implementing a public relations communication campaign; techniques for communicating with various publics; and the laws and ethics governing the practice of public relations. *Prerequisite: one course in business or communication arts.*

COMM 324 Argumentation and Critical Thinking

3 hours. A course in practical reason. Includes a survey of theories of argumentation, analysis of public arguments, and several speeches, including a debate. *Prerequisite: COMM 100 Introduction to Communication, or instructor's permission.*

COMM 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.*

COMM 340 General and Cultural Linguistics

3 hours. Offered 2003-04. A study of the nature of verbal symbols as they function in communication. The course will include phonetic transcription, semantics,



modern grammatical theories, history of the English language, and modern English dialects.

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

3 hours. An introduction to the theory and practice of teaching English (or any language) to non-native speakers. Topics include principles of language teaching, communicative and interactive approaches, teaching methods and techniques for improving different language skills, lesson planning, materials selection and adaptation, testing, cultural issues, teaching English as Christian witness, and working with English as a second language students in a mainstream class. Students relate theory to practice in a school- or community-based practicum.

COMM 360 Nonverbal Communication

3 hours. 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.*

COMM 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.

COMM 380 Leadership Communication

3 hours. An introduction to the study and practice of leadership from a communication perspective. Particular focus on the relationship between communicating and leading. Examination of leadership concepts and theories in organizational, group, and public contexts. Students will analyze their personal leadership styles and develop leadership communication skills through team projects and classroom exercises. *Prerequisite: sophomore standing or above.*

COMM 400 Critical Approaches to Communication

3 hours. Methods of rhetorical criticism as applied to public communication of the past and present, including but not limited to speeches, broadcasts, films, and campaigns. Analysis of current trends in rhetorical criticism. *Prerequisite: COMM 300 Theoretical Approaches to Communication, or permission of the instructor.*

COMM 410 Gender Communication Across Cultures

3 hours. A course designed to introduce students to the nature and function of gender differences in communication on a cross-cultural basis. Examines biological, cultural, linguistic, and power theories that attempt to explain these differences. Focus given to verbal (spoken and written) language as well as nonverbal communication codes.

COMM 475 TESOL Field Experience.

1-3 hours. Supervised teaching experience in a school or community program for learners of English as a second language. *Prerequisite: COMM 350 Introduction to TESOL or EDFL 473 Planning and Managing ESOL Curriculum and Instruction.*

COMM 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication

3 hours. Designed to integrate skills and concepts from communication course work with ethical and spiritual principles through readings, written assignments, and assessment instruments. Students will complete portfolios that will include work samples and department exit exams along with a statement of what it means to be a Christian communicator. A service component may be included as part of the course.

COMM 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

CSIS 130 Web-Based Programming

3 hours. An introduction to computer programming using HTML and JavaScript. The emphasis of the course is placed on fundamental concepts of computer programming through the creation of interactive Web pages. The course is designed for students who want to learn more about the World Wide Web and its applications.

CSIS 201, 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 standard style and structure. Programming projects are completed in one or more high-level languages. *Prerequisite: High school algebra or equivalent.*

CSIS 220 Digital Logic Design

4 hours. Introduction to digital systems and binary codes, Boolean algebra and digital logic devices, combinational logic circuits and design methods, ROM and RAM memory elements, and sequential logic circuits, and design methods. Laboratory experience includes TTL logic circuits and CAD tools. Three lectures and one laboratory per week. (Identical to ENGR 220.) *Prerequisite: ENGR 152 Engineering Principles I or CSIS 201 Introduction to Computer Science I, or equivalent.*

CSIS 300 Numerical Methods

3 hours. Offered 2003-04. A study of numerical solutions of mathematical problems, including nonlinear equations, systems of linear equations, polynomial approximations, root finding, integration, and differential equations. Computer programs are written to solve these problems. (Identical to MATH 300.) *Prerequisites: MATH 202 Calculus II, and either CSIS 201 Introduction to Computer Science or ENGR 152 Engineering Principles II.*

CSIS 310 Data Structures and File Processing

3 hours. An introduction to the concepts of information organization, methods of representing information both internally and externally. The course begins with basic structures (stacks, queues, linked lists, and trees) and moves through more complex data structures into the processing of files (sequential, relative, indexed sequential, and others). Programming projects are completed in one or more high-level languages. *Prerequisites: CSIS 201, 202 Introduction to Computer Science*

CSIS 314 Client-Server Systems

3 hours. Offered 2003-04. This course provides an introduction to constructing complete information systems based on the client-server model. On the client side, we introduce graphical user-interfaces, their design and implementation, as well as commonly used tools such as database access clients, and report generators. On the server side we introduce database management systems and the use of server-side programming tools that provide connectivity for clients and access to database systems. Along the way, students are introduced to the basics of distributed computing and computer networks. *Prerequisite: CSIS 202 Introduction to Computer Science II.*

CSIS 321 Software Engineering

3 hours. Offered 2003-04. An introduction to the strategies used in producing quality software. The life cycle of software development is presented and utilized. Larger projects are undertaken by teams of students in the initial phases. *Prerequisite: CSIS 202 Introduction to Computer Science.*

CSIS 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: CSIS 310 Data Structures and File Processing, and MATH 190 Pre-Calculus Mathematics.*

CSIS 340 Database Systems

3 hours. Offered 2003-04. A study of the organization of database systems for information storage, retrieval, and security. Examples of hierarchic, network, and relational-based systems are presented. *Prerequisite: CSIS 310 Data Structures and File Processing.*

CSIS 350 Data Communications and Networks

3 hours. 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) and the OSI model. Students will experience the installation of one or more network systems. *Prerequisite: CSIS 202 Introduction to Computer Science.*

CSIS 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: CSIS 310 Data Structures and File Processing.*

CSIS 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: CSIS 310 Data Structures and File Processing.*

CSIS 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: CSIS 310 Data Structures and File Processing.*

CSIS 430 Analysis of Algorithms

3 hours. Offered 2003-04. An introduction to the design and analysis of algorithms. The course covers the fundamentals of analyzing algorithms for correctness and time and space bounds. Topics include advanced sorting and searching methods, graph algorithms, geometric algorithms, matrix manipulations, string and pattern matching, set algorithms, and polynomial computations. *Prerequisite: CSIS 310 Data Structures and File Processing.*

CSIS 434 Parallel Computing

3 hours. Offered 2003-04. A theoretical and practical survey of parallel processing, including a discussion of parallel architectures, parallel programming languages, and parallel algorithms. Students will program one or more parallel computers in a higher-level parallel language. *Prerequisite: CSIS 310 Data Structures and File Processing.*

CSIS 440 Artificial Intelligence (AI)

3 hours. Offered 2003-04. This course introduces the student to the basic concepts and techniques of artificial intelligence, knowledge representation, problem solving, and AI search techniques. AI solutions will be developed in an appropriate AI language. *Prerequisite: CSIS 310 Data Structures and File Processing.*

CSIS 450 Network Administration

3 hours. Offered 2002-03. This course introduces the

student to system administration of a LAN. Topics covered include adding and removing users, monitor and controlling processes, add, remove, and manage groups, mount and unmount filesystems, monitor and troubleshoot a TCP/IP network, manage and control network and system security, and administration of network file systems. *Prerequisite: CSIS 350 Data Communications and Networks.*

CSIS 460 Operating Systems

3 hours. A study of the organization and architecture of computer systems. The major principles of operating systems are presented, along with case studies involving actual operating systems. *Prerequisite: CSIS 310 Data Structures and File Processing.*

CSIS 471 Senior System Development I

1 hour. In the senior system development sequence, students apply their knowledge and software engineering skills gained through course work to a substantial computer/information science project. In the first semester, projects are defined and necessary background research along with feasibility studies are completed. Students must also consider the ethical, moral, and social impact of their systems. Collaboration with other departments of the University is encouraged. *Prerequisite: At most, three semesters from graduation.*

CSIS 472 Senior System Development II

3 hours. The projects that were initiated in the first semester are fully developed and implemented. Use of analysis, design, implementation, and testing techniques are applied throughout the project. The system development sequence culminates in the oral presentations, and formal written reports of the projects. *Prerequisite: CSIS 471 Senior System Development I.*

CSIS 475 Field Experience

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

CSIS 480 Principles of Compiler Design

3 hours. Offered 2002-03. This course introduces the student to the basics of building a compiler using a multiphase translation process. It covers lexical analysis, parsing, and translation to abstract syntax using modern parser generator technology. It discusses binding of identifiers and symbol table organization, and a variety of intermediate representations that are suitable for back-end analysis. Other topics include type checking, attribute grammar representations, and printing from abstract syntax. *Prerequisite: CSIS 310 Data Structures and File Processing. (CSIS 420 Structures of Programming Languages preferred.)*

CSIS 485 Selected Topics

1–10 hours. A scheduled class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors. *For upper-division computer information science majors only.*

CSIS 490 Applied Software Development

1–3 hours. Special software development projects designed and completed by the student in an area that applies computers. This is an independent-study course and is supervised by staff in both the computer area as well as in the selected area of study. *For upper-division computer information science majors only, by permission.*

CSIS 495 Special Study

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

ECONOMICS

Additional courses are listed under Accounting (pg. 65) and Business (pg. 71).

ECON 201 Principles of Microeconomics

3 hours. An introduction to the micro aspects of the social science concerned with the allocation of resources. Consideration is given to the fundamental principles governing production, distribution, consumption, and exchange of wealth. The course studies the behavior of microeconomic units such as individuals, households, firms, and industries. ECON 201 and ECON 202 are complementary courses; however, either course may be taken first.

ECON 202 Principles of Macroeconomics

3 hours. An introduction to the macro aspects of the social science concerned with the allocation of resources. Consideration is given to the fundamental principles of the economy as a whole, dealing with economic data, behavior, and theory at the aggregate level of the economy. The course studies topics such as government spending, taxation, and monetary policies, as well as events and issues in the global economy. ECON 202 and ECON 201 are complementary courses; however, either course may be taken first.

ECON 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: ECON 201 Principles of Microeconomics and ECON 202 Principles of Macroeconomics.*

ECON 360 Global Political Economy

3 hours. An integrated view of the world economy, with particular attention to such topics as economic growth, debt crises, the distribution of wealth and income, the relationships between economic and political systems, the economics of peace and war, and environmental issues. *Prerequisite: ECON 201 Principles of Microeconomics or ECON 202 Principles of Macroeconomics.*

ECON 430 Managerial Economics

4 hours. The course will focus on the application of economic theory and quantitative methods to management decision making. Topics include analysis of consumer demand and market structure, pricing practices, production and cost analysis, optimization techniques, forecasting, and risk analysis. *Prerequisites: ECON 201 Principles of Microeconomics, ECON 202 Principles of Macroeconomics, and BUSN 240 Statistical Procedures in Business and Economics.*

ECON 460 International Trade and Finance

4 hours. An overview of international economics with attention to international trade, economic cooperation, foreign exchange, international banking, and global financial institutions. Attention is given to trade policies, bilateral and multilateral trade negotiations, the functioning of firms in the international economy, and reform of the global financial architecture. *Prerequisites: ECON 201 Principles of Microeconomics, and ECON 202 Principles of Macroeconomics.*

ECON 475 Field Experience

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

ECON 485 Selected Topics

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

ECON 495 Special Study

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

EDUCATION

EDUC 240 Perspectives in Education

2 hours. An overview of history and social issues in education and an exploration of teaching as a career. Introduction to the teacher education program at George Fox University. Includes 30 clock hours of field experience. *Sophomore or junior standing required. Required for elementary teaching majors. Encouraged for students considering the M.A.T. program.*

EDUC 275 Field Experience

1–2 hours. An elective field placement individually designed with approval of the instructor. Does not substitute for required field assignments; 40 hours fieldwork per credit is required.



EDUC 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. Fieldwork may be required in both courses.

EDUC 321 Early Childhood Education

3 hours. Early childhood distinctives regarding growth, development, and learning, with attention to implications for classroom management and organization, parent involvement, and program operation.

EDUC 322 Early Childhood Methods

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

EDUC 331 Psychological Foundations: Inclusion and Assessment

2 hours. A survey of current knowledge about the diverse abilities of learners in the regular classroom, with an emphasis on methods for including students and assisting their learning processes. Survey of current assessment procedures.

EDUC 332 Psychological Foundations: Learning Theory and Classroom Management

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

EDUC 333 Developmental Health and Physical Education

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

EDUC 351 Middle-Level Education

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

EDUC 352 Middle-Level Methods

3 hours. Developmentally appropriate methods and materials for facilitating instruction and integration of subject matter fields for middle-level students in both departmentalized and self-contained classroom organizational patterns. Issues of parent involvement and teacher collaboration.

EDUC 370 Integrated Methods: Music and Art

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

EDUC 375 Student Teaching I

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

EDUC 380 Integrated Methods: Science and Social Studies

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

EDUC 401 Integrated Methods: Literature and Language

4 hours. Survey of children’s literature genre and uses. Methods and materials of language arts teaching in the areas of listening and speaking, and of spelling and handwriting instruction.

EDUC 402 Integrated Methods: Literature and Literacy

4 hours. Methods and materials for language arts teaching in the areas of reading and writing, with an emphasis on the use of children’s literature.

EDUC 475 Student Teaching II

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

EDUC 285/485 Selected Topics

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

EDUC 490 Senior Seminar

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

EDUC 495 Special Study

1-3 hours. Directed independent study open to upper-division students only. May not be used to substitute for required courses. *Prerequisite: instructor's permission.*

ENGINEERING

Electrical Engineering

ENGE 220 Digital Logic Design

4 hours. Introduction to digital systems and binary codes; Boolean algebra and digital logic devices; combinational logic circuits and design methods; ROM and RAM memory elements; sequential logic circuits and design methods. Laboratory experience includes TTL logic circuits and CAD tools. Three lectures and one laboratory per week. *Prerequisite: ENGR 152 Engineering Principles II or CSIS 201 Introduction to Computer Science.*

ENGE 250 Electrical Circuit Analysis

4 hours. Basic concepts of DC and AC electrical circuits. Voltage-current relationships for circuit elements; Kirchhoff's laws; Thevenin and Norton theorems. Basic transient and sinusoidal steady-state analysis; phasor analysis; frequency response, resonance, and measurement concepts. Applications of the transistor and operational amplifier. Analysis and design aided by PSpice simulation software. Three lectures and one laboratory per week. *Prerequisite: PHYS 212 General Physics with Calculus. Corequisite: MATH 310 Differential Equations.*

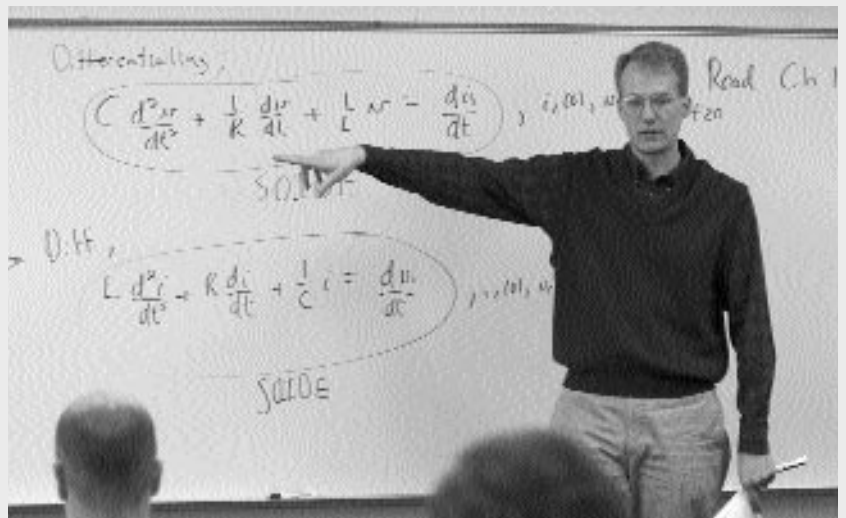
ENGE 300 C Programming with Applications

2 hours. 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: ENGE 220 Digital Logic Design, and MATH 202 Calculus II.*

ENGE 311 Electronic Devices and Circuits

4 hours. Introduction to the terminal characteristics of active semiconductor devices. Operation and small-signal models of diodes, junction and field-effect transistors, and operational amplifiers. Basic single-stage and multi-stage amplifiers: gain, biasing, and frequency response. Switching characteristics of transistors in saturation and cutoff. Three lectures and one three-hour laboratory per week. *Prerequisites: ENGE 220 Digital Logic Design, ENGE 250 Electrical Circuit Analysis, and ENGR 250 Principles of Materials Science.*



ENGE 312 Applications of Electronic Devices

3 hours. Analog and digital applications of electronic devices: amplifiers, oscillators, filters, modulators, logic circuits, and memory elements. Feedback, stability, and noise considerations. Emphasis on practical design problems and the formulation of design objectives. Two lectures and one three-hour laboratory per week. *Prerequisite: ENGE 311 Electronic Devices and Circuits.*

ENGE 330 Signals and Electrical Systems

3 hours. Fundamental concepts of continuous-time and discrete-time signals and systems. Linear time-invariant systems, the convolution integral, and impulse response. Fourier series and frequency domain analysis. Fourier, Laplace, and z-transform techniques. Principles of feedback, sampling, and modulation. *Prerequisite: ENGE 250 Electrical Circuit Analysis.*

ENGE 350 Electrical Network Analysis

3 hours. Theoretical and practical aspects of electrical networks. Loop and nodal analysis of multi-port networks. Admittance, impedance, and transmission param-

eters; matrix solutions. Butterworth, Chebyshev, and other useful network response functions; network theorems. Synthesis of passive and active networks. *Prerequisite: ENGE 250 Electrical Circuit Analysis.*

ENGE 360 Electromagnetic Fields and Waves

3 hours. Theoretical study of static and dynamic electric and magnetic fields. Gauss' law and the static electric field; boundary value problems in electrostatics. Effects of dielectric and magnetic media properties. Magnetostatics; Faraday's law and applications. Maxwell's equations for time-varying fields; wave propagation; Poynting's theorem. Numerical methods and computer simulation tools in electromagnetics are introduced. *Prerequisites: MATH 310 Differential Equations, and PHYS 212 General Physics with Calculus.*

ENGE 410 Integrated Circuit Design

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

ENGE 420 Microprocessors

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

ENGE 430 Communication Systems

3 hours. Offered 2003-04. Introduction to analog and digital communications theory and applications. Topics include encoding, modulation and multiplexing techniques, spectral analysis, transmission line effects, noise analysis and filtering, multiple-channel and fiber optic communications, telecommunication systems, and data communications applications. *Prerequisite: ENGE 330 Signals and Electrical Systems.*

ENGE 440 Electric Machines and Power Systems

3 hours. Offered 2003-04. Introduction to electric machines and electric power utility systems. AC and DC rotating machines; single- and three-phase motors and generators; transformers and solid-state devices, power transmission lines, load flow analysis, system faults, and system modeling and design. Includes lab assignments to enhance course theory and to give hands-on experience. *Prerequisites: ENGE 350 Electrical Network Analysis, and ENGE 360 Electromagnetic Fields and Waves.*

ENGE 460 Microwave Engineering and Applications

3 hours. Offered 2003-04. Study of microwave circuits, devices, and techniques as applied to cellular communications and other modern systems. Propagation and reflection on ideal and lossy transmission media. Smith chart and S-parameter tools. Strip lines, microstrip and coplanar lines, and cross talk. Analysis and design of microstrip circuits. Introduction to antenna fundamentals. Includes computer and laboratory exercises. *Prerequisites: ENGE 312 Applications of Electronic Devices, ENGE 330 Signals and Electrical Systems, and ENGE 360 Electromagnetic Fields and Waves.*

Mechanical Engineering

ENGM 210 Statics and Dynamics

4 hours. A two-part course beginning with rigid bodies in equilibrium. A quantitative description of forces, moments, and couples acting upon engineering structures at rest is developed. The free-body diagram is used extensively to understand the equilibrium of a whole physical system through isolation of each component particle, or body. The second part of the course considers the mathematical description of rigid bodies in motion under the action of forces, moments, and couples. Students learn how to describe the geometry of motion (kinematics) and then move into two- and three-dimensional kinetic analysis. Applications using ADAMS computer-aided dynamic analysis software are included. *Prerequisites: MATH 202 Calculus II, and PHYS 211 General Physics with Calculus.*

ENGM 300 Computational Methods

2 hours. Solution to problems in mechanical engineering using numerical techniques. Development of numerical models beginning with physical model analysis, description of appropriate governing equations, selection of critical parameters, choice of solution methodology, and application of numerical solution procedure. Applications selected from a wide variety of topics in mechanical engineering. Solution techniques to include finite difference and finite element methods. *Prerequisites: ENGR152 Engineering Principles II, and MATH 310 Differential Equations.*

ENGM 311 Engineering Thermodynamics

3 hours. Classical treatment of thermodynamics emphasizing the first and second laws and their application to closed and open (control volume) systems undergoing steady, unsteady, and cyclic processes. Introduction to vapor power systems. Tabular and graphical thermodynamic property data are used in analytical work. *Prerequisites: ENGM 210 Statics and Dynamics, and PHYS 212 General Physics with Calculus.*

ENGM 312 Applications of Engineering Thermodynamics

3 hours. Advanced topics in the first and second laws of thermodynamics, availability, and irreversibility. Vapor and gas power cycles, mixtures of gases and vapors, introduction to combustion theory, nonreacting and chemically reacting flows. Applications to spark and compression ignition engines, gas and vapor turbines, refrigeration systems, heat exchangers, and psychrometrics. Two lectures and one three-hour laboratory per week. *Prerequisite: ENGM 311 Engineering Thermodynamics.*

ENGM 320 Mechanics of Materials

3 hours. Behavior of deformable body systems under combinations of external loading is presented. Analysis of stress, deformation, strain, failure fatigue, and creep are included. Mathematical, graphical, and energy methods are utilized. *Prerequisites: ENGM 210 Statics and Dynamics, and ENGR 250 Principles of Material Science.*

ENGM 330 Fluid Mechanics

3 hours. Presentation and development of fundamental concepts of fluids as continua, including velocity and stress fields, and viscosity. Fluid statics, hydrostatic analysis of submerged bodies, and manometry methods. Development of the governing equations of mass, momentum, and energy conservation for fluid motion using both integral and differential techniques. Incompressible inviscid flow, dimensional analysis and similitude, and flow in pipes and ducts. Boundary-layer concepts. Flow in open channels. *Prerequisites: ENGM 311 Engineering Thermodynamics, and MATH 310 Differential Equations.*

ENGM 350 Machine Dynamics and Vibrations

3 hours. Kinematic and dynamic analysis of basic mechanisms with an introduction to kinematic synthesis. Fundamentals of vibration theory and their application to lumped parameter systems. Both single- and multi-degree of freedom systems having steady-state and transient responses are considered. Concepts of machine dynamics and design are supplemented with mathematical, graphical, and computer techniques and analysis. *Prerequisites: ENGM 210 Statics and Dynamics, and MATH 310 Differential Equations. Corequisite: ENGM 300 Computational Methods.*

ENGM 380 Heat Transfer

4 hours. Fundamental aspects of steady-state and transient heat transfer by conduction, convection, and radiative transport modes. Analytical and semi-empirical methods of forced and natural convection systems. Conjugate analysis of multi-mode problems using numerical methods is presented. Heat exchanger design, boiling, and condensation are also included. Three lectures

and one three-hour laboratory per week. *Prerequisites: ENGM 300 Computational Methods, and ENGM 330 Fluid Mechanics.*

ENGM 400 Mechanical Engineering Design

4 hours. Fundamental principles for the synthesis, analysis, and design of mechanical elements and systems. The use of statics, dynamics, mechanics of materials, and failure theories to evaluate mechanical systems under static and dynamic loading. Application of design techniques to specific mechanical components such as gears, springs, shafts, bearings, and fasteners, with an emphasis on design for manufacturability. Computer modeling tools including finite element analysis are utilized. Three lectures and one three-hour laboratory per week. *Prerequisites: ENGM 320 Mechanics of Materials, ENGM 330 Fluid Mechanics, and ENGM 350 Machine Dynamics and Vibrations.*

ENGM 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: ENGM 380 Heat Transfer, and ENGM 400 Mechanical Engineering Design.*

ENGM 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: ENGM 330 Fluid Mechanics, and ENGM 350 Machine Dynamics and Vibrations.*

ENGM 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: ENGM 400 Mechanical Engineering Design.*

ENGM 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 premixed 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: ENGM 312 Applications of Thermodynamics, and ENGM 380 Heat Transfer.



General Engineering

ENGR 151, 152 Engineering Principles I & II

2 hours each semester. Introduction to the concepts and methods of engineering problem solving and design. Topics include the following: analysis and design methodologies, structured computer programming, basic principles of engineering graphics, the visualization and modeling of real-world systems, and an introduction to the history and ethics of the engineering profession. Computer-aided design (CAD) tools, solid modeling and simulation software, and mathematics software applica-

tions are presented. Students work on numerous team design projects, communicating their results through oral and written reports. Meets twice weekly in a lecture/lab environment. Prerequisite: MATH 190 Precalculus Mathematics, or equivalent.

ENGR 250 Principles of Materials Science

3 hours. The science underlying the behavior of engineering materials, including the relation between atomic structure and mechanical, electrical, and magnetic properties in metals, ceramics, polymers, composite materials, and semiconductors. Phase diagrams, heat treatment, and corrosion mechanisms are also presented. Laboratory exercises are included to enhance course theory and to provide hands-on experience with materials measurement apparatus and analysis techniques. Prerequisites: CHEM 211 General Chemistry, and PHYS 212 General Physics With Calculus.

ENGR 380 Robotics Control Systems

3 hours. Introduction to automatic control systems in the context of robotics. Basic concepts in the organization and operation of microcomputer-controlled manipulators are covered. State variable and transfer function representations of feedback control systems; stability, sensitivity, and time response considerations; use of root-locus, Bode, and Nyquist methods for analysis and synthesis. Experiments include transducers, servomechanisms, kinematics, dynamics, trajectory planning, and the programming language of robots. Two lectures and one three-hour laboratory per week. Prerequisite: junior standing in the engineering major.

ENGR 275/475 Engineering Internship Experience

1-4 hours. Supervised experience with an off-campus industry, business, or institution where the student is working in some engineering-related discipline. Admission and credit hours determined by instructor.

ENGR 481 Senior Design I

1 hour. Offered 2003-04. In the senior design sequence, students apply their knowledge and design skills gained through course work to an industry-based project. In the first semester, interdisciplinary teams are formed to begin projects in conjunction with participating industrial sponsors. Necessary background research and feasibility studies are completed. Students must also consider the ethical, moral, environmental, and social impact of their designs. Collaboration with other departments of the University is encouraged. Prerequisite: senior standing in the engineering major.

ENGR 482 Senior Design II

3 hours. Offered 2003-04. The projects that were initiated in the first semester are further developed through simulation, prototyping, and testing. Use of analytic, computer, experimental, and design techniques are applied throughout the project. The design sequence cul-

minates in the construction of the projects, oral presentations, and formal written reports. *Prerequisite: ENGR 481 Senior Design I.*

ENGR 485 Selected Topics

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

ENGR 490 Senior Seminar

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

ENGLISH AS A SECOND LANGUAGE

ESLA 005 Conversation Tutorial

1 hour. Each student is paired with an American student for conversation, orientation to life in a new culture, and optional academic tutoring.

Level A (Beginning/Low Intermediate)

ESLA 055 Reading

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

ESLA 060 Writing and Grammar

4 hours. An introduction to the fundamental structure and vocabulary of the English language, focusing on the development of writing skills.

ESLA 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.

ESLA 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.

ESLA 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)

ESLA 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.

ESLA 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.

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

ESLA 170 ESLA Freshman Experience

2 hours. Offered fall semester. An introduction to life at George Fox University. Through various group activities, intermediate-level students learn about life on campus, Christianity and chapel, study skills, and use of library resources. Students explore aspects of American culture and Oregon geography and history in food labs, field trips, and group projects. This course provides many opportunities for students to use English in communication and to practice skills consistent with their level.

ESLA 185 Introduction to Christianity

2 hours. Offered spring semester. Through video, readings, and class discussion, students are introduced to the life of Christ and the foundations of Christianity. This course also provides a context for practice of English listening, reading, speaking, and writing skills.

Level C (Advanced)

ESLA 225 Adjunct Reading

3 hours. An intensive course to improve academic reading skills, including vocabulary, reading speed, reading strategies, and test taking. Assignments are based on

class texts from the general education course in which students are concurrently enrolled. Reading lab and vocabulary lab are required.

ESLA 235 Speech

3 hours. A practical course to help students improve their academic speaking skills, with emphasis on formal speeches, group presentations, small-group interaction, and pronunciation.

ESLA 245 Academic Writing

5 hours. This course provides instruction and practice in the types of writing commonly found in college courses, including the research paper, essays and essay exams, and reaction papers. Process, organization, and mechanics are emphasized. Principles of advanced English grammar and usage are applied in writing assignments.

ESLA 255 Adjunct Listening

3 hours. This course cultivates skills of listening and notetaking in academic lectures, including identifying main ideas and distinguishing supporting information, understanding relationships among ideas, and taking notes that reflect this understanding. Assignments are based on lectures from the general education course in which students are concurrently enrolled. Video lab and group tutorial are required.

Transition

ESLA 295 Writing Tutorial

1 hour. Students in their first semester after completing the ELI and new students who score between 500 and 550 on the paper-based TOEFL or between 173 and 213 on the computer-based TOEFL meet individually with a faculty member to improve their ability to write in English and to develop more effective study strategies.

ESLA 285/485 Selected Topics

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

Teaching English

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

3 hours. An introduction to the theory and practice of teaching English (or any language) to non-native speakers. Topics include principles of language teaching, communicative and interactive approaches, teaching methods and techniques for improving different language skills, lesson planning, materials selection and adaptation, testing, cultural issues, teaching English as Christian witness, and working with English as a second language students in a mainstream class. Students relate theory to practice in a school- or community-based practicum.

FAMILY AND CONSUMER SCIENCES

FCSC 120 Apparel Construction

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

FCSC 211, 212 Foods I, II

3 hours each semester. This food science course examines the physical properties of food. Fall semester emphasizes the biological and chemical factors affecting plant and protein foods, with spring semester focusing on the properties of grain (baked goods) and dairy products. Laboratory experience encourages food product experimentation and the development of culinary skills.

FCSC 220 Fashion and Society

2 hours. A survey of the nature, symbolism, and process of fashion. Course will emphasize the cultural, sociological, psychological, economic, and aesthetic influences of fashion.

FCSC 230 Textiles Science

3 hours. Offered 2003-04. Surveys the sources and properties of natural and manmade fibers, yarn and fabric construction; colorations and finishes. Emphasis on fabric selection, use, and care; labeling legislation and economics; and the consumer's role in influencing textile and clothing legislation. Laboratory experience included.

FCSC 250 Residential Technology

2 hours. Survey of appliances, materials, and guidelines used in planning kitchens and bathrooms within a home. Includes drafting procedures for kitchen and bathroom design. Emphasis on space allocation.

FCSC 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.*

FCSC 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 SOCI 280 and HLTH 280.)

FCSC 285/485 Special Topics

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

FCSC 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:* FCSC 211, 212 Foods I, II, or instructor's permission.

FCSC 300 Nutrition

3 hours. A study of nutrients present in food and their relation to the nutritive needs of the human body. Emphasis on the young adult, along with discussion of contemporary nutrition-related topics of national and global concern. Computer-assisted dietary analysis included. (Identical to HLTH 300.)

FCSC 310 Food, Culture, and Society

3 hours. A study of the food habits characteristic of our world's great civilizations. Emphasis on the investigation of global foodways through historical, social, and religious perspectives. Weekly laboratory provides opportunity to prepare foods from cultures studied.

FCSC 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 PSYC 311 and SWRK 311.) *Prerequisite:* PSYC 150 General Psychology.

FCSC 320 Fashion Merchandising

3 hours. Offered 2003-04. An introduction to the merchandising and retailing principles within the fashion industry. Managing merchandise inventory through planning, procurement, and promotion. Emphasis on buying, forecasting, inventory control, and visual merchandising. The analysis of the marketing channel and the product/service mix will also be covered.

FCSC 330 Residential Architecture

2 hours. Offered 2003-04. A study of housing trends and the psychological, social, and economic needs of various family types. Site selection, planning, and construction of housing emphasized. Includes a section on historical housing.

FCSC 344 Quantity Food Production and Management

3 hours. Offered 2003-04. Quantity food production principles for the successful organization and management of an effective, operative food service. Surveys

administrative responsibilities, menu planning, preparing food to specific standards, cost controls, and nutritional value. Includes a laboratory experience focusing on quality control, finances, and computer assistance.

Prerequisite: FCSC 211 Foods I.

FCSC 350 Resource Management

2 hours. Offered 2002-03. A study of resource allocation (time, money, energy) and its relationship to attainment of desired values, goals, and standards. Emphasis is placed on the application of management principles individually and within the family.



FCSC 351 Interior Design I

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

FCSC 352 Interior Design II

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

FCSC 353 Interior CAD

3 hours. Offered 2003-04. An introduction to computer-aided-design applications and drafting techniques used in interior design. Emphasis placed on the application of design principles. *Prerequisite:* FCSC 351 Interior Design I, or instructor's permission.

FCSC 360 Consumer Buying

3 hours. Offered 2003-04. Analysis of the consumer in the marketplace. Course defines contemporary consump-

tion patterns and uses the decision-making process to familiarize the consumer with appropriate resource allocation to attain desired goals.

FCSC 370 Pattern Drafting and Apparel Design

3 hours. Offered 2003-04. A study of the flat-pattern method of garment design. Each student will use advanced fitting principles to produce a basic fit garment and a personal sloper. The sloper will be used in the production of an original design using flat-pattern techniques. Included in the process are construction of the original design in half-scale and full-scale. *Prerequisite:* FCSC 120 Apparel Construction.

FCSC 378 Apparel CAD

3 hours. Offered 2002-03. Emphasis on clothing design by use of draping techniques. Course includes introductory unit focusing on computer-aided-design processes. Each student will complete an original design in half-scale using draping techniques. *Prerequisite:* FCSC 120 Apparel Construction.

FCSC 380 Evolution of World Dress

3 hours. Important events in history, combined with values, technology, and conflict, have influenced dress from 3000 B.C. to the early 1900s. The origins of dress are analyzed from the ancient world to the Middle Ages, to the periods identified as Renaissance, Baroque, and Rococo, and terminating with clothing styles from the early 20th century.

FCSC 430 Nutrition and the Life Cycle

3 hours. Offered 2003-04. Survey of human nutrition science and contemporary issues affecting stages of the life cycle, from conception to the aging adult. Emphasis on the role diet plays in the development and treatment of chronic disease. *Prerequisite:* FCSC 300 Nutrition, or instructor's permission.

FCSC 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.

FCSC 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. *Prerequisite:* instructor's permission.

FCSC 490 Senior Seminar

3 hours. A capstone course for those anticipating entrance into family and consumer sciences-related

careers. Emphasis placed on careers in family and consumer sciences, planning and giving demonstrations, and marketplace readiness skills. *Prerequisite:* senior standing.

FRENCH

Note: Placement testing is generally required of all students prior to registration for their first French course at George Fox University. Placement tests are typically administered during orientation.

FREN 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.

FREN 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:* FREN 102 First-Year French or placement by exam.

FREN 275/475 Field Experience

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

FREN 285/485 Selected Topics

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

FREN 301, 302 Third-Year French

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

FREN 490 Study Abroad

12-16 hours. A one-semester overseas experience. Students take university courses while living abroad in France. *Application, completion of FREN 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.*

FREN 495 Individual Research or Fieldwork

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

GENERAL EDUCATION

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

GEED 100 Effective College Learner

1 hour. A course related to the Academic Success Program through which personal confidence is enhanced by instruction in study skills, methods, and tools used by successful college students. It may be taken during the spring semester by students not in the Academic Success Program.

GEED 130 Freshman Seminar

1 hour. Members of the entire entering freshman class select a small seminar-style topical course for the first five weeks of fall semester, meeting weekly with an advisor and a returning student peer advisor. Selected topics and issues introduce students comfortably to the academic and social life of the University community. *Required of all first-time freshmen.*

GEED 214 Designing Your Career Plan; Discovering Your Career Self

1 hour. This course, for freshmen and sophomores, will cover learning about oneself, life mission, work skills, values, interests, and personality. Educational and occupational opportunities will be examined in light of this self-assessment, which will lead to selecting a major. Use of career assessment tools, career computer system, standard career references, major research, and introduction to work-related experiences will be the sources of information in these tasks. The meaning of work and career decision making will be addressed from the biblical perspective.

GEED 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.

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

1 hour. This course, for juniors and seniors, will focus on honing skills needed to find employment; contemporary résumé writing, interviewing, strategizing a job search, networking, and completing a portfolio. Making employer contacts, transitioning successfully into the

professional work force with an understanding of the market, and learning to solve future career problems will be emphasized. The meaning of work and career decision making will be discussed from the biblical perspective.

GEED 271, 272 Sophomore Honors Colloquium GEED 371, 372 Junior Honors Colloquium

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

GEED 375 Cultural Experience

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

GEOGRAPHY

GEOG 200 Cultural Geography and Global Relationships

3 hours. A study of the world's cultural regions developed through the themes of location, human environmental relationships, movement, and regions, with emphasis on the interrelatedness of culture, physical, economic, historical and political geography in creating the dynamic cultural landscapes existing today. (Identical to INTL 200.)

GERMAN

GERM 101, 102 First-Year German

3 hours each semester. Offered on sufficient demand. A study of the structures of the German language, with practice in listening, speaking, reading, and writing. The cultures of Germany and German-speaking countries are presented as integral aspects of learning the language. Language lab listening and interaction are required.

GERM 201, 202 Second-Year German

3 hours each semester. Offered on sufficient demand. A thorough review of German language structures, with extensive practice in reading and speaking. Students read short stories and articles and present oral and written reports. Language lab listening and interaction are required. *Prerequisite: GERM 102 First-Year German, or two years of high school German, or by testing.*

GREEK

GREK 201, 202 Hellenistic Greek I

4 hours each semester. Offered 2003-04. A beginning course in the Greek of the New Testament, including vocabulary, grammar, declensions, conjugations, and special constructions. The First Epistle of John and various other selections from the New Testament are read. The second semester may be applied as biblical studies major credit.

GREK 301, 302 Hellenistic Greek II

4 hours each semester. Offered 2002-03. The continuation of the course in the Greek of the New Testament, including vocabulary, grammar, and special constructions. Emphasis is placed on readings from biblical texts and exegesis of those texts. *Prerequisite: GREK 202 Hellenistic Greek I.*

GENERAL SCIENCE

GSCI 120 Environmental Science

3 hours. This course will introduce the conceptual, interdisciplinary framework of environmental science by examining its physical, biological, and social components. Topics to be considered will include an inventory of the earth's resources, ecological principles and the responses of systems to anthropogenic stress; population growth; biodiversity and conservation; and environmental sustainability. Two lectures and one laboratory per week.

GSCI 130 Fundamentals of Geology

3 hours. A systematic study of planet earth. The nature and origin of common minerals, rocks, and geologic structures. Topics will include geology of the earth's crust, plate tectonics, the geology of Oregon, ground water contamination, and geologic hazards such as volcanoes, earthquakes, erosion, landslides, and flooding. This course meets general education requirements and requires no previous knowledge of geology. Two lectures, one two-hour laboratory per week, and two daylong field trips.

GSCI 285/485 Selected Topics

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

HEBREW

HEBR 201, 202 Introduction to Biblical Hebrew

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

HUMAN PERFORMANCE

Additional courses are listed under Health Education.

Activity

HHPA 100-139/300-339 Human Performance Activities

1 hour. Three hours of credit required for graduation. (One hour of health education may be applied to the required 3 hours.) Instruction in fundamental skills, rules, and strategy. Personal selection may be made from a variety of sports, recreational, and leisure-time activities as they are scheduled each semester.

HHPA 125 Adapted Activities

1 hour. 3 hours of credit required for graduation. Offered to those students who are unable to participate in regular physical education activities because of physical limitations. *A statement from the student's physician is required.*

HHPA 145/345 Intercollegiate Athletics

1 hour. 2 credits toward the physical education general education requirement may be earned in athletics, but no more than 1 hour in any one sport may be counted toward the requirement.

Education

HHPE 109 Ballroom Dance

1 hour. Instruction in basic to intermediate steps in ballroom dance including swing, fox-trot, waltz, and tango. Includes introductory level instruction in Latin and Western styles and dance etiquette.

HHPE 200 History and Principles of Physical Education

2 hours. Offered 2002-03. A survey of the history and development of physical education and athletics in America. The course will also emphasize fundamental principles of physical education and sport.

HHPE 221 Basketball/Golf

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

HHPE 222 Field Sports

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

HHPE 223 Tumbling/Gymnastics

1 hour. Offered 2003-04. Intermediate to advanced instruction in skills, teaching techniques, spotting, and safety factors involved in tumbling and gymnastics.

HHPE 226 Tennis/Volleyball

1 hour. Offered 2003-04. Intermediate to advanced skills and techniques, with emphasis on learning how to teach basic skills and drills. Tournament organization and game administration are included.

HHPE 227A Lifeguard Training

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

HHPE 227B Water Safety Instruction

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

HHPE 228 Conditioning/Body Mechanics and Aerobics

1 hour. Offered 2003-04. Instruction in concepts related to developing and maintaining physical fitness and movement skills.

HHPE 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.

HHPE 295 Special Study

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

HHPE 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.

HHPE 310 Coaching Basketball

2 hours. Offered 2003-04. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed. *Prerequisite: instructor's permission.*

HHPE 320 Coaching Baseball/Softball

2 hours. 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: instructor's permission.*

HHPE 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: instructor's permission.*

HHPE 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 EDUC 333.

HHPE 340 Coaching Track

2 hours. Offered 2003-04. 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.*

HHPE 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: instructor's permission.*

HHPE 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 athletics programs. Course content will include curriculum design, budget formation, facility design, and coordination. Professional conduct and ethics will be stressed.

HHPE 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: HHPE 390 Care and Prevention of Athletic Injuries.*

HHPE 370 Camp Programming and Counseling

3 hours. Offered 2003-04. 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 CHMN 370.)

HHPE 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. Prerequisites: HHPE 390 Care and Prevention of Athletic Injuries, HHPE 413 Therapeutic Exercise, HHPE 414 Therapeutic Modalities, and declared athletic training major. (4 hours required.)

HHPE 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.



HHPE 384 Pharmacology in Athletic Training

1 hour. Offered 2003-04. An emphasis on the knowledge, skills, and values required of an athletic trainer on pharmacologic applications, including indications, contraindications, precautions, interactions, and governing regulations relevant to the treatment of injuries and illnesses of the physically active. Prerequisites: BIOL 221, 222 Human Anatomy and Physiology.

HHPE 390 Care and Prevention of Athletic Injuries

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

HHPE 394 Kinesiology

3 hours. Application of human anatomy and physical laws to the explanation of movement activities. Special emphasis is given to detailed analysis of various sports activities. Prerequisites: BIOL 221, 222 Human Anatomy and Physiology.

HHPE 400 Recognition of Athletic Injuries

3 hours. Course will examine “normal” human anatomy, mechanisms of athletic injury, and deviation from “normal” anatomy in an athletic injury. Practice time will be given on techniques of evaluation. Prerequisites: BIOL 221 Human Anatomy and Physiology, and HHPE 390 Care and Prevention of Athletic Injuries.

HHPE 413 Therapeutic Exercise

2 hours. Offered 2003-04. Course will examine exercise procedures as the first modality for rehabilitation of the injured athlete. Also examines the role of exercise for the prevention of injuries, as well as rehabilitation to all major joints and musculature of the body. Includes a lab for practice. Prerequisites: HHPE 390 Care and Prevention of Athletic Injuries, and HHPE 394 Kinesiology.

HHPE 414 Therapeutic Modalities

2 hours. Offered 2003-04. Course will examine the role of therapeutic modalities of thermal and electrical agents, ultrasound, and mechanical modalities in the rehabilitation of the injured athlete. Includes a lab for practice. Prerequisite: HHPE 390 Care and Prevention of Athletic Injuries.

HHPE 420 Exercise Prescription

3 hours. Application of exercise testing and prescription of individuals ranging from athletes to special populations. Includes aspects of nutrition, disease, training methods, and exercise responses.

HHPE 430 Exercise Physiology

3 hours. Offered 2003-04. Application of principles of physiology to physical activity. Special attention is given to the effect of exercise on the various body systems and the construction of training programs. Prerequisites: BIOL 221, 222 Human Anatomy and Physiology.

HHPE 440 Camp Administration

2 hours. Offered 2003-04. Designed to develop a basic understanding of programming, business, and leadership at an administrative level. A weekend camping trip is required. (Identical to CHMN 440.)

H

HUMAN PERFORMANCE

HHPE 460 Physical Education for the Exceptional Student

3 hours. Offered 2002-03. This course considers the nature and etiology of disabilities and handicapping conditions, as well as the implications for and development of appropriate physical education programs.

HHPE 470 Motor Development and Motor Skill Learning

3 hours. A study of the development of motor skills. Psychological principles of learning are applied to motor skill learning. A review of research and an inquiry into the effect of various conditions on the learning and performance of motor skills from early childhood through the adult years.

HHPE 475 Fitness Management Field Experience

9 hours. Supervised field experience for senior human performance majors in the fitness management major track. Field experience takes place in a variety of settings, including health clubs, YMCAs, cardiac rehabilitation programs, nutritional centers, senior citizen centers, and community recreation programs. *By permission only, with application made one semester in advance of placement.*

HHPE 480 Tests and Measurements in Physical Education

2 hours. Offered 2002-03. Emphasis is given to methods of evaluation in programs of physical education. Testing procedures, standard tests, physical examinations, and evaluation activities are discussed.

HHPE 485 Selected Topics

2-3 hours. A seminar dealing with various topics, as announced, that represent current faculty interests and competencies.

HHPE 490 Senior Seminar

1 hour. Discussion of current issues in health, physical education, and athletics. Senior thesis is required.

HHPE 495 Special Study

1-3 hours. Individual research under the guidance of the faculty. *Prerequisite: instructor's permission.*

HISTORY

HIST 110 Western Civilization to 1648

3 hours. A survey of Western civilization from the ancient world through the Reformation and religious wars, including attention to the origins and development of religious, political, and economic life and ideas.

HIST 120 Western Civilization from 1648

3 hours. A survey of European civilization from early modern Europe to the present day. Special attention is

given to the political, economic, and religious developments that continue to influence European society and its role in world events.

HIST 150 America and the World

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



HIST 220/420 War and Conscience in the United States

3 hours. An exploration of American thought on the subject of war, both today and in past crises such as the American Revolution, Civil War, wars with the 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 PSCI 220/420.)

HIST 280 Introduction to Political Philosophy

3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to PSCI 280 and PHIL 280.)

HIST 300 American Political Theory

3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to PHIL 300 and PSCI 300.)

HIST 310 Herbert Hoover and His Times

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

HIST 320 Constitutional Law: Issues of National Power

3 hours. Considers the powers of the federal judiciary, Congress, and the president; the distribution of authority between the national and state governments; and how the Constitution has reflected our evolving theories of politics. (Identical to PSCI 320.)

HIST 330 The American West

3 hours. Examines the relationship of the American West to the rest of the nation through its exploration, settlement, and development. Special attention is given to the Pacific Northwest and to the Native American experience.

HIST 331 England to 1688

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

HIST 332 England Since 1688

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

HIST 340 History of the Middle East

3 hours. Explores the political, economic, social, and religious developments in the Middle East from the ancient to the modern era, with emphasis on the latter period.

HIST 350 Latin America

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

HIST 360 Modern Russia

3 hours. A study of 20th-century Russia and other former Soviet republics, with emphasis on their current significance in the world and the factors in their history that brought the Revolution of 1917 and the collapse of the Soviet Union.

HIST 370 Far East

3 hours. Political and cultural developments of China and Japan.

HIST 380 The African-American Experience in the United States

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

HIST 390 Peace Research

1-3 hours. Directed research on peace subjects, both current and historical. Students will normally write a major research paper. (Identical to PSCI 390.)

HIST 401 Christianity in History

3 hours. The development of Christianity from its appearance within the Greco-Roman world through the medieval period, and its influence as a base for culture in the West. (Identical to RELI 401.)

HIST 402 Christianity in History

3 hours. Christianity's development from the dawn of the Protestant Reformation through its global spread during the modern era, observing its historical context and relationship to the surrounding cultures. (Identical to RELI 402.)

HIST 410 Classical Greece and Rome

3 hours. A survey of classical Greece and Rome from 1600 B.C. through the collapse of the Roman Empire in the West in the fifth century A.D. Political, economic, and social developments are stressed, including the rise of Christianity and the early church.

HIST 419 Medieval Europe

3 hours. A survey of medieval Europe from the collapse of the Roman Empire in 500 to the rise of Modern Europe in 1500. Special attention is given to the important political, economic, and religious developments of this period.

HIST 421 Europe from the Age of Enlightenment to 1890

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

HIST 422 Europe 1890-Present

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

HIST 430 The Vietnam Experience

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

HIST 440 History of Africa

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

H

H I S T O R Y

HIST 457 The Colonial Experience, 1607-1763

3 hours. Studies Colonial life in the British colonies of North America from the founding of Jamestown to the end of the French and Indian War. Emphasis is placed on religious conflict and development, the growing sense of a unique American identity, and the importance of community as opposed to the distant British government in the lives of everyday citizens.

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

3 hours. Studies the world of the founders. Emphasis is placed on the ideological, social, and political milieu that gave birth to the American Revolution and Constitution. The course also considers the radical changes in American society the revolution set in motion.

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

3 hours. Examines the causes of the Civil War. In addition, slavery, Christianity, the westward movement, the struggle for power in Congress, Abraham Lincoln, the rise of Northern industrialism, and Southern society are all studied in their own right and in relation to the conflict some historians call "the crossroads of our being."

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

3 hours. Considers how economic growth and then depression challenged the American government and people to redefine the American Dream and to discover new avenues for achieving it. At the same time, Europe confronted America with two world wars which also changed the nature of American society and the role of the United States in the world.

HIST 469 Recent America, 1945 to the Present

3 hours. Studies America as the leader of the western world during the Cold War and how that role impacted the social, economic, intellectual, and political currents in American life. This course also examines the rise of interest groups, the increased political prominence of ethnic and women's groups, and the impact of these groups on American culture.

HIST 470 Renaissance and Reformation

3 hours. The political, social, and religious life of Europe from the beginning of the Renaissance to the Peace of Westphalia, with emphasis on the various reform movements and their impact on the modern world.

HIST 475 Field Experience

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

HIST 485 Selected Topics

3 hours. Occasional special courses scheduled to fit the interests of students and faculty and the needs of a shifting society. A course in presidential elections is offered in presidential-election years.

HIST 490 History Seminar

3 hours. The course examines the methods professional historians use in writing history and the main currents in American historiography through the reading of America's most influential historians. Working closely with the instructor, students are required to write a research paper based on primary sources. The paper will be permanently retained by the history faculty.

HIST 495 Special Study

1-3 hours. Independent study of subjects outside regular offerings. Guiding bibliographies are provided, and regular reading reports and conferences are scheduled. *For upper-division history majors only, by permission.*

HEALTH EDUCATION

Additional courses are listed under Health and Human Performance.

HLTH 200 Lifestyle Management

3 hours. 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.

HLTH 210 Drug Education

2 hours. Problems concerned with the use, misuse, and abuse of selected pharmacological agents. Social, psychological, physical, and moral implications are considered. Particular consideration is given to ergogenic aids in athletics.

HLTH 230 First Aid and Safety

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

HLTH 240 Stress Management

3 hours. *Offered 2003-04.* A study of causes, symptoms, and results of stress. Introduces practical techniques to alleviate stress, promote relaxation, and encourage a healthy lifestyle.

HLTH 280 Marriage and the Family

3 hours. A focus on relationships and issues in marriage and family development, covering in Christian per-

spective such topics as families in cultural context, American family development, the married pair, parenting, the empty nest, widowhood, and singleness. (Identical to SOCI 280 and FCSC 280.)

HLTH 300 Nutrition

3 hours. A study of nutrients present in foods and their relation to the nutritive needs of the human body. Emphasis on the young adult, along with discussion of contemporary nutrition-related topics of national and global concern. Computer-assisted dietary analysis will be included. (Identical to FCSC 300.)

HLTH 310 School Health Program

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



HLTH 320 Contemporary Health Issues

3 hours. Offered 2002-03. A study of our nation's current health problems and concerns. Emphasis on health consumerism and current trends, diseases, the sanctity of life, and fitness. Goal is to develop an educated view on current health issues.

HLTH 285/485 Selected Topics

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

INTERNATIONAL STUDIES

INTL 200 Cultural Geography and Global Relationships

3 hours. A study of the world's cultural regions developed through the themes of location, human environmental relationships, movement, and regions, with emphasis on the interrelatedness of culture, physical, economic, historical, and political geography in creating

the dynamic cultural landscapes existing today. (Identical to GEO 200.)

INTL 310 Cultural Anthropology

3 hours. A comparative study of world societies and their ways of life. (Identical to SOC 310.)

INTL 330 Introduction to the World Christian Movement

3 hours. The biblical basis and history of missions are considered, with a special focus upon the modern missionary movement of the last 200 years. (Identical to REL 330.)

INTL 340 International Relations

3 hours. Introduction to the principles and study of interstate relations in the contemporary world. Special attention is given to the problem of sovereignty, the United Nations, and international law. (Identical to PSC 340.)

INTL 440 World Religions

3 hours. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Islam, Hinduism, and contemporary kinds of alternative religion. (Identical to REL 440.)

INTL 460 International Trade and Finance

4 hours. An overview of international economics with attention to international trade, economic cooperation, foreign exchange, international banking, and global financial institutions. Attention is given to trade poli-

cies, 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*.

INTL 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.*

INTL 490 International Studies Senior Seminar

3 hours. Required of senior international studies majors, the course emphasizes the investigation of theoretical and current applications of interdisciplinary research in international studies. Students with a significant interest in international issues are welcome, with the consent of the instructor. A research paper based upon primary source materials is the main assignment of the course.

JAPANESE

JPNS 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.

JPNS 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:* JPNS 102 First-Year Japanese, or two years of high school Japanese, or by testing.

LEADERSHIP STUDIES

LEAD 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.)

LEAD 490 Leadership Seminar

1 hour per semester/4 semesters total. Integrative seminar linking leadership practicum, course work, and readings. Topics include servant leadership, transformational leadership, and leadership development. Occasional retreats and other off-campus activities. (Pass/no pass only.)

LITERATURE

LITR 100 Introduction to Literature

3 hours. Explores the major genres, themes, and elements of literature.

LITR 220 Great American Writers

3 hours. A brief survey of American literary history, combined with a close study of some of the most engaging works and writers in the tradition.

LITR 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.

LITR 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.

LITR 240 Understanding Drama

3 hours. A study of significant plays from the classical period to the present, both as literary works and staged productions, the goal being a deeper understanding and appreciation of drama as a symbolic form. Primary focus is on literary values, with attention also given to the constraints and interpretations embodied in the staging, acting, and directing of a play. (Identical to THEA 240.)

LITR 270 Great British Writers

3 hours. An introduction to British literary history, combined with a close study of some of the most engaging works and writers in the tradition.

LITR 285/485 Selected Literary Topics

3 hours. An occasional course which allows professors and students to investigate interesting literary byways. Past selections have included studies in science fiction, the literature of human rights, the short story, and the works of particular authors.

LITR 326 American Literature to 1865

3 hours. A selective look at early American literature, from 1607 to 1865. Examines themes, movements, and writers who influenced and were influenced by the growth of the new nation. *Prerequisite:* One 100- or 200-level literature course or instructor's permission.

LITR 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 instructor's permission.

LITR 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 instructor's permission.

LITR 340 Poetry

3 hours. A study of poetry as a distinct literary form, including the major genres of poetry and the strategies

for reading and analyzing poems, including the use of figurative language, scansion, and symbolism. Explores the interaction of form and content and the relationship of text to context. *Prerequisite: LITR 100 Introduction to Literature, or instructor's permission.*

LITR 350 Literary Criticism

3 hours. Introduces students to various schools of literary criticism. Students will practice using different critical approaches to writing about literature. Recommended for juniors and seniors. *Prerequisite: 6 hours of literature courses or instructor's permission.*

LITR 360 Values Through Story and Myth

3 hours. A consideration of selected writers and works that attempt to understand, explore, and transmit values through narrative. Works considered will range from fiction to nonfiction, including essays, short stories, film, poems, and novels. The focus is on issues related to gender, the environment, and the social/political community as they reveal and define our contemporary world and its cultural values structures.

LITR 376 British Literature to 1660

3 hours. A selective look at the literature of the British Isles, from the earliest texts through 1660. Particular attention is given to the Anglo-Saxon, Medieval, and Renaissance periods. *Prerequisite: one 100- or 200-level literature course or instructor's permission.*

LITR 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 instructor's permission.*

LITR 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 instructor's permission.*

LITR 385 Major Authors

3 hours. Focuses on a major author or authors, changing from year to year according to the professor's expertise. The course considers the different phases of the career and development of the author's art, as well as the appropriate contexts in which she or he wrote, and his or her legacy for later writers. May be repeated for different authors. *Prerequisite: LITR 100 Introduction to Literature, or instructor's permission.*

LITR 440 A Study of the Modern Novel

3 hours. Examines the modern novel as a distinct lit-

erary form through the analysis of important world writers. Discusses such issues as the relationship between novelistic structure and ideology. *Prerequisite: LITR 100 Introduction to Literature, or consent of the instructor.*

LITR 495 Individual Research

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

MATHEMATICS

MATH 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.

MATH 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.

MATH 190 Precalculus Mathematics

4 hours. A course for students who are preparing to take calculus or other courses requiring a similar background. In addition to studying the topics found in a college algebra course, this course will focus on trigonometry and an introduction to exponential and logarithmic functions. *Prerequisite: MATH 120 Intermediate Algebra, or its equivalent.*

MATH 201, 202, 301 Calculus I, II, III

4 hours each semester for MATH 201, 202; 3 hours for MATH 301. A study of differential and integral calculus, including functions of more than one variable. Additional topics include vector geometry, infinite series, and applications. *Prerequisite: MATH 190 Precalculus Mathematics, or equivalent.*

MATH 240 Statistical Procedures

3 hours. Statistical procedures for the social sciences. Emphasis on the development of a basic knowledge of the statistical tools available for the analysis of problems and issues in the social sciences. (Identical to PSYC 340 and SOCI 340.) *Prerequisite: high school algebra or equivalent.*

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MATH 260 Discrete Mathematics

3 hours. An introduction to discrete mathematics. Topics covered include sets, functions, math induction, combinatorics, recurrence, graph theory, trees, and networks. *Prerequisite: MATH 190 Precalculus Mathematics.*

MATH 290 Mathematical Logic

3 hours. Offered 2003-04. This course is intended to facilitate a smooth transition from lower-level, computation-oriented math courses to upper-level, more theoretical courses. Topics include symbolic logic, methods of proof, set theory. *Prerequisite: MATH 201 Calculus I.*

MATH 300 Numerical Methods

3 hours. Offered 2003-04. A study of numerical solutions of mathematical problems, including nonlinear equations, systems of linear equations, polynomial approximations, root finding, integration, and differential equations. Computer programs are written to solve these problems. (Identical to CSIS 300.) *Prerequisites: MATH 202 Calculus II, and either CSIS 201 Introduction to Computer Science or ENGR152 Engineering Principles II.*

MATH 310 Differential Equations

3 hours. A study of the theory, methods of solution, and applications of ordinary differential equations. Methods include series solutions and LaPlace transforms. *Prerequisite: MATH 301 Calculus III.*

MATH 320 Linear Algebra

3 hours. Offered 2002-03. A study of matrices and their properties and application, linear transformations, and vector spaces. *Prerequisite: MATH 301 Calculus III.*

MATH 331 Probability

3 hours. Offered 2003-04. A study of sample spaces, combinatorial methods, discrete and continuous distributions, moment-generating functions, and the central limit theorem. *Prerequisite: MATH 301 Calculus III.*

MATH 332 Mathematical Statistics

3 hours. Offered 2003-04. A study of statistical methods — including estimators, confidence intervals, tests of statistical hypotheses, and correlation analyses — from a theoretical point of view, including applications. *Prerequisite: MATH 331 Probability.*

MATH 340 Elementary Number Theory

3 hours. Offered 2002-03. An introduction to the basic properties of whole numbers, including such topics as prime numbers, Euclid's algorithm, Fermat's Theorem, congruences, and Diophantine equations. The course will emphasize historical development of the relevant topics. *Prerequisites: MATH 202 Calculus II and MATH 290 Mathematical Logic.*

MATH 350 Modern Geometry

3 hours. Offered 2002-03. A rigorous study of Euclidean geometry and an introduction to non-Euclidean geometries. *Prerequisites: MATH 202 Calculus II and MATH 290 Mathematical Logic.*

MATH 410 Algebraic Structures

3 hours. Offered 2003-04. A study of groups, rings, integral domains, fields, polynomial rings, and algebraic number systems. *Prerequisites: MATH 202 Calculus II and MATH 290 Mathematical Logic.*

MATH 485 Special Topics

1–3 hours. A class with topics in mathematics chosen to fit special needs or interests of students, faculty, or visiting professors. *Prerequisite: MATH 301 Calculus III.*

MATH 490 Senior Seminar

2 hours. Offered 2002-03. A seminar for junior and senior math majors to explore current topics selected by the instructor. Emphasis will be placed on significant student involvement in the classroom. *Prerequisite: junior or senior standing.*

MATH 495 Special Study

1–3 hours. Independent study of mathematical topics outside the regular offerings. Topics include advanced calculus, mathematical statistics, topology, real and complex analysis, and others. *For upper-division mathematics majors only, by permission.*

MUSIC

Applied Music

MUSA 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.

MUSA 105/305 Applied Piano

1 or 2 hours. Technical exercises, scales, and arpeggios in various rhythms; études 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.

MUSA 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.

MUSA 105/305 Applied Strings

1 or 2 hours. Instruction on violin, viola, cello, and string bass. Basic fundamentals, posture, bow, and arm techniques, shifting, and vibrato. Included are scale and arpeggio studies and works from the standard solo and orchestral repertoire.

MUSA 105/305 Applied Woodwinds

1 or 2 hours. Instruction on flute, clarinet, oboe, saxophone, and bassoon. Tone production, scales, and arpeggios in various articulations. Includes technical studies and works from the standard solo and orchestral repertoire.



MUSA 105/305 Applied Brass

1 or 2 hours. Instruction on trumpet, French horn, trombone, baritone, and tuba. Technical studies include tone production, scales, and arpeggios with various articulation. Works from the standard solo and orchestral repertoire are studied.

MUSA 105/305 Applied Percussion

1 or 2 hours. Instruction on snare drum, tympani, the mallet instruments, and drum set. An in-depth study of all the percussion instruments used in the wind ensemble and orchestra.

MUSA 105/305 Applied Guitar

1 or 2 hours. Study of playing techniques, with emphasis on chordal knowledge and basic strums. Solos and ensemble pieces will be included for each student at his or her performance level.

Ensembles

MUSA 115/315 Festival Chorus

1/2 hour. The chorus is composed of members of all the University choirs. It also is open to all University students, University faculty and staff, alumni, and community singers. The chorus, typically accompanied by orchestra, performs a significant sacred choral work from

the choral repertoire each spring. Handel's *Messiah* is performed every third year.

MUSA 125/325 Concert Choir

1/2 or 1 hour. The Concert Choir is committed to excellent choral singing in a wide variety of styles, including contemporary sacred and gospel arrangements, spirituals, and hymn settings. The choir's combined commitment to excellence and ministry finds expression in concerts given on campus and in churches throughout the Northwest. Rehearsals are held four days a week. *Membership is by audition.*

MUSA 125T/325T Music Theatre

1/2 or 1 hour. Membership is open to all students interested in the production aspects of theatre. This organization offers one major presentation each spring. Works performed include Broadway musicals, light opera, music reviews, and an occasional opera. Orchestra accompaniment generally is used, and productions are completely staged, choreographed, costumed, and lighted. *Chorus members and leading roles are selected by audition.*

MUSA 135A/335A Chamber Singers

1/2 hour. This ensemble sings a flexible repertoire ranging from Renaissance madrigals through contemporary vocal jazz settings and

Christian contemporary gospel. Members present concerts in the Portland region and participate in various campus concerts. *Membership is by audition.*

MUSA 135B/335B Bel Canto Singers

1/2 hour. Featuring women's voices, this group sings a varied repertoire and performs in regional churches and on campus. *Membership is by audition.*

MUSA 135D/335D DaySpring

1/2 hour. This ensemble, composed of talented and versatile singers and instrumentalists, represents the University in churches, high schools, banquets, service clubs, and University functions. Their repertoire includes Christian contemporary settings, arrangements of traditional hymns and spirituals, and vocal jazz. *Membership is selected through interviews and auditions with representatives of the music, development, and admission departments.*

MUSA 135H/335H George Fox University Handbell Ringers

1/2 hour. This musical ensemble shares its music with community agencies, churches, and University audiences. Limited to 12 ringers. *Open to all by audition.*

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MUSIC

MUSA 145/345 Wind Ensemble

1/2 or 1 hour. The Wind Ensemble is a touring ensemble that plays concerts throughout the Northwest. The spring tour repertoire is played in schools, churches, and for chapel. This ensemble serves to train students for careers in instrumental conducting and performing.

Prerequisite: instructor's permission.

MUSA 145J/345J Jazz Ensemble

1/2 hour. An ensemble organized to train instrumentalists in the jazz repertoire. Performances are usually for school events and some off-campus concerts. Members who are music majors must also be enrolled in the Wind Ensemble.

MUSA 155/355 Chehalem Symphony Orchestra

1/2 or 1 hour. The symphony orchestra performs music by the master composers of the Baroque, Classical, Romantic, and Modern eras. Concertos featuring student soloists are often part of the annual repertoire. Community and faculty musicians combine with University students to form this ensemble. Performances include fall and spring concerts, as well as accompaniment of the Festival Chorus. *Prerequisite: instructor's permission.*

MUSA 165/365 Instrumental Ensemble

1/2 hour. An ensemble organized to meet the needs of the instrumental music student who desires to explore literature for the small ensemble, such as string quartet, brass quartet, or woodwind quintet.

Theory and Literature

MUSI 100 Music Fundamentals

2 hours. This course provides a fundamental understanding of music by considering the basics of musical construction, with examples drawn from the history of music. A study of musical notation, interval recognition, elements of pitch and rhythm, scale and chord construction, essential concepts in harmony, and basic musical forms. The student will be able to experience these fundamental concepts at the piano. No musical or keyboard experience is necessary.

MUSI 110 Understanding Jazz

2 hours. A study of various aspects and types of jazz, from blues to jazz rock. Students will discover the great jazz artists and learn how to listen to a variety of jazz idioms.

MUSI 111 Introduction to Music Literature

2 hours. A course to develop music appreciation through extensive listening to standard works. Study of vocal and instrumental forms and styles of the various periods.

MUSI 120 The World of Music

2 hours. This course acquaints the liberal arts student with a broad range of musical styles reflecting diverse cultures, including classical, jazz, and popular music. Various composers, performers, and their music are listened to and studied.

MUSI 121, 122 Theory I

3 hours each semester. A course designed to help the student systematically acquire basic information and interrelated skills that will be of value in future musical endeavors as performer, teacher, or composer. Includes work in part writing, keyboard harmony, analysis, and creative writing. *Must be taken concurrently with MUSI 131, 132 Sight Singing and Ear Training.*

MUSI 125 Voice Class

1 hour. May be repeated for credit. A course designed for beginning singers who wish to understand, improve, and enhance their individual voices. Classroom participation will include instruction in basic vocal technique and care of the voice. Students will learn a variety of song literature and vocal exercises.

MUSI 131, 132 Sight Singing and Ear Training

1 hour each semester (two class hours a week). A lab experience designed to develop proficiency in singing prepared melodies, melodies at sight, rhythmic patterns, and in taking basic melodic dictation. *Music majors should register for this lab as a required component of MUSI 121, 122 Theory I, which should be taken concurrently.*

MUSI 135 Class Piano

1 hour. May be repeated for credit. Elementary- to intermediate-level class instruction in piano. This class is open to any student regardless of previous experience and does not require an instruction fee in addition to the normal tuition cost. Students working toward achieving the required piano proficiency may choose to study private applied piano with the instructor's consent rather than enroll for Class Piano. *Required of all music majors who have not yet met the piano proficiency skill level.*

MUSI 140 Organ for Pianists

1 hour. Offered 2002-03. Group instruction in organ, its design, literature, and performance techniques. Designed for pianists of at least intermediate keyboard competency with no previous experience in organ.

MUSI 150 Keyboard Accompaniment

1 hour. This course provides "on-the-job training" and special insights and skills in the art of accompanying. A wide range of repertoire is studied, from accompanying classical solo artists to accompanying choirs (both classical and gospel), small ensembles, and congregational singing.

MUSI 180 Introduction to Music Technology

2 hours. Introductory work with technological resources basic to work in the music field. Includes hands-on experience with MIDI and sequencing, music notation programs and desktop publishing, digital sound formats, and basic Web authoring.



MUSI 200 Basic Conducting

1 1/2 hours. Introduction to the basic fundamentals of conducting for the music major, the music education major, and the future church musician. Emphasis is placed upon the mastery of simple conducting patterns, cues, and expressive gestures, and common problems in leading group singing and in directing musical ensembles.

MUSI 210 Keyboard Literature

2 hours. Through a variety of keyboard music (harpsichord, piano, organ, and synthesizer), students will acquire an understanding of diverse keyboard approaches from the Baroque through contemporary styles. Recommended for those especially interested in keyboard music.

MUSI 225 Composition

Individual lessons in composition. Initial inquiry into organization of sound resources, developing techniques for working with musical materials, and composition in small forms. May be repeated for credit. *Prerequisite:* MUSI 122, 132, or instructor's permission.

MUSI 270 Music Techniques

3 hours. Offered 2002-2003. Fundamental instruction in the technique required to sing and play musical instruments at an intermediate level. Attention will be given to the technical aspects of musical performance with an emphasis on the various demands related to teaching singers and instrumentalists. *Prerequisites:* MUSI 121, 122 Theory I.

MUSI 221, 222 Theory II

4 hours each semester. A continuation of Theory I. Includes chromatic harmonies and remote modulations. Introduction to 20th-century harmonic usage. Creative work is required. *Prerequisite:* MUSI 121, 122 Theory I.

MUSI 250 Folk Guitar Techniques

1 hour. This course offers elementary class instruction in the techniques of playing folk guitar. Proper hand position, fingering, and strumming styles, and a reasonably broad range of chords are presented. Emphasis is upon building a solid accompaniment to songs likely to be used in preschool through secondary school grades.

MUSI 310 Counterpoint

2 hours. Offered 2002-03. Principles of 18th-century polyphony. Detailed study of the works of J.S. Bach and his contemporaries. Original composition required. *Prerequisites:* MUSI 221, 222 Theory II.

MUSI 311, 312 Music History

3 hours each semester. A study of the development of music from antiquity through the 20th century. Comparisons are made to the development of the other arts. Concentrated study of music literature emphasizing the change in musical styles during the different historical periods. *Prerequisites:* MUSI 121, 122 Theory I.

MUSI 320 Form and Analysis

2 hours. Detailed study of the structural components of music, including the motive, phrase, and period. Application to principal contrapuntal and homophonic forms of the Classic, Romantic, and Modern periods. *Prerequisites:* MUSI 221, 222 Theory II.

MUSI 340 Church Music (History and Administration)

3 hours. Offered 2003-04. A study of music within the church, viewed historically from the early centuries through the needs of the contemporary church.

MUSI 380 Keyboard Improvisation and Service Playing

2 hours. Offered 2002-03. A practical course for pianists and organists seeking to discover creative approaches in programming and leading the congregation in inspirational worship and celebration.

MUSI 400 Music and Christian Faith

2 hours. A study of the relationships between musical communication and Christian faith and practice. Also includes some preparatory modules for Senior Recital. *Prerequisites:* MUSI 222, MUSI 312 or equivalents, and junior or senior standing.

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MUSIC

MUSI 410 Elementary Music Methods

3 hours. Offered 2003-2004. Students will be introduced to the foundations of elementary music education including the National Standards and current teaching methodologies. Student observation and participation will provide the basis of an understanding of teaching music at the elementary level. *Prerequisite:* MUSI 121, 122 Theory I.

MUSI 411 Middle Level and High School Music Methods

3 hours. Offered 2003-2004. Students will investigate the many special teaching demands of music education at the secondary level. Vocal and instrumental music ensembles will be studied to determine the special requirements of these performance groups. Music courses at the secondary level will be examined to determine their individual teaching methodologies. *Prerequisite:* MUSI 121, 122 Theory I.

MUSI 425 Composition

Individual lessons in composition. Continuing work in composition including (but not limited to) composition in larger forms, digital media, multimovement forms, exploration of style resources. *Prerequisite:* MUSI 225 *Composition and admission to upper-division study, or instructor's permission.*

MUSI 430 Instrumentation and Orchestration

2 hours. Offered 2003-04. A study of the instruments of the orchestra and band, including their ranges, characteristics, and capabilities. Practical application of the principles of arranging and scoring for orchestral/band instrumental combinations. *Prerequisites:* MUSI 221, 222 Theory II.

MUSI 460 Advanced Conducting

2 hours. Offered 2003-04. A course designed to acquaint the student with advanced choral and instrumental literature. Basic conducting patterns are reviewed and adapted to all aspects of conducting: syncopation, cuing, and expressive gestures. *Prerequisite:* MUSI 200 *Basic Conducting.*

MUSI 475 Field Experience

1-5 hours. Supervised experience in music apprenticeship as conductor, performer, or composer. *Prerequisite:* permission of music faculty.

MUSI 492 Senior Recital/Project

1 hour each semester. Students prepare a project in cooperation with a faculty advisor. The project is presented before an audience and filed permanently in the music department.

MUSI 495 Special Study

1-3 hours. Individual research under the guidance of the faculty. *Prerequisite:* permission of music faculty.

PHILOSOPHY

PHIL 210 Introduction to Philosophy

3 hours. This introduction to philosophical issues encompasses study of the human quest to understand the meaning of knowledge, art, nature, God, values, and other vital interests. Lectures and reading will introduce the student to the major systems of philosophy developed by thoughtful people over the centuries.

PHIL 230 Ethics

3 hours. Ethics consists of an analysis of the ethical theories and systems by which persons make judgments and choices, with special attention to contemporary moral issues and the modern revival of virtue theory.

PHIL 260 Sociological Theory

3 hours. A critical study of some major social philosophers from Comte to the present. (Identical to SOCI 260.) *Prerequisites:* SOCI 150 *Principles of Sociology, and PHIL 210 Introduction to Philosophy, or instructor's permission.*

PHIL 270 Philosophy of Art

3 hours. Offered 2003-04. 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.

PHIL 280 Introduction to Political Philosophy

3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to HIST 280 and PSCI 280.)

PHIL 300 American Political Theory

3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to HIST 300 and PSCI 300.)

PHIL 330 Philosophy of Religion

3 hours. Examines classic topics in the field, including theistic arguments, the problem of evil, miracles, religious language, and divine attributes.

PHIL 340 Logic

3 hours. Logic involves a study of Aristotelian forms of deductive reasoning, including the syllogism, inductive reasoning, fallacies, and some aspect of symbolic logic, including Venn diagrams, and truth tables. Its goal is to facilitate sound thinking that is both creative and critical.

PHIL 380 History of Philosophy Survey

3 hours. A one-semester survey of the history of Western philosophy. Emphasizes the connections and contrasts between historical periods.

PHIL 382 History of Philosophy Seminar

3 hours. Examines a particular period in the history of philosophy (e.g. Ancient, Medieval, Enlightenment, 19th Century). Choice of period determined by student interest and professorial competence. *Prerequisite: A philosophy course other than PHIL 340 Logic, or instructor's consent.*

PHIL 415 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 PHIL 340 Logic, or instructor's permission.*

PHIL 485 Selected Topics

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



PHIL 495 Special Study

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

PHYSICS

PHYS 150 Physics of Everyday Life

3 hours. A relevant and practical introduction to everyday physical phenomena through a conceptual survey of various physics topics, including motion, energy, sound, light, electricity, and relativity. No mathematical background is required. This course meets the general education requirement and is designed for non-

science majors. Two lectures and one laboratory period per week.

PHYS 201, 202 General Physics

4 hours each semester. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using algebraic methods for analysis. *Prerequisite: MATH 190 Precalculus Mathematics.*

PHYS 211, 212 General Physics With Calculus

4 hours each semester. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using calculus methods for analysis. *Prerequisite: MATH 201 Calculus I.*

POLITICAL SCIENCE

PSCI 150 Introduction to Political Science

3 hours. An introduction to the study of the use of political processes to decide public policy and the distribution of resources within and among communities and nations. Systems of government, and individual behaviors and informal political processes within those systems, will be examined using examples from various parts of the world throughout history. In the process, students will begin to explore the major questions of political philosophy, civic leadership, and Christian public ethics.

PSCI 190 American Government

3 hours. The theory and practice of the federal government and the study of key issues in government in general.

PSCI 220/420 War and Conscience in the United States

3 hours. An exploration of American thought on the subject of war, both today and in past crises such as the American Revolution, Civil War, wars with the Indians, and the world wars; a study of the official position major church bodies have taken in regard to war; and the experiences of individuals who refused to fight. (Identical to HIST 220/420.)

PSCI 240 State and Local Government

3 hours. The origins, evolution, structure, and present functions of state, county, and city government, with particular reference to Oregon. Special attention is given to the rising problems of urban government and regional planning.

P

POLITICAL SCIENCE

PSCI 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 SOCI 250.)

PSCI 260 Introduction to Law

3 hours. A general study of the role of law and the legal profession in American life, and a survey of the major topics addressed by the law. Attention also is given to the values promoted by our legal system and the Christian's interaction with it.

PSCI 280 Introduction to Political Philosophy

3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to HIST 280 and PHIL 280.)

PSCI 285/485 Selected Topics

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

PSCI 300 American Political Theory

3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to HIST 300 and PHIL 300.)

PSCI 310 Conflict Resolution

3 hours. A study of communication principles found useful in managing conflict productively. Focus is given to conflict occurring in institutional and organizational settings between individuals and groups. Attention also is given to conflict in social, national, and international settings. (Identical to COMM 310.)

PSCI 320 Constitutional Law: Issues of National Power

3 hours. Considers the powers of the federal judiciary, Congress, and president; the distribution of authority between the national and state governments; and how the Constitution has reflected our evolving theories of politics. (Identical to HIST 320.)

PSCI 340 International Relations

3 hours. Introduction to the principles and study of interstate relations in the contemporary world. Special attention is given to the problem of sovereignty, the United Nations, and international law. (Identical to INTL 340.)



PSCI 350 Seminar on the First Amendment

3 hours. Studies the Supreme Court's interpretation of the First Amendment, with an emphasis on its religion clauses. The political, historical, and theoretical background of the amendment and subsequent cases is carefully considered.

PSCI 360 Criminal Rights and Equal Protection

3 hours. This course focuses on major Supreme Court decisions regarding criminal law and the civil rights of women and racial minorities. The issues of abortion and the death penalty are examined in detail.

PSCI 390 Peace Research

1–3 hours. Directed research on peace subjects, both current and historical. Students will normally write a major research paper. (Identical to HIST 390.)

PSCI 410 Community Mediation

3 hours. A study of mediation skills and their uses in community disputes, including neighborhood conflicts, public policy issues, and as court-annexed alternatives to litigation. Students also will examine the impact of mediation on democratic political theory, on the theory underlying our adversarial legal system, and on Christian views of conflict in the public arena.

PSCI 430 Women and Politics in American History

3 hours. Considers the role of women in politics from colonial days to the present. Special consideration is given to the role of Quaker women and grassroots organizers.

PSCI 440 Christianity and Politics in America

3 hours. This course considers how Christianity and politics have been related throughout American history, how they are related today, and how they should be related. Quaker contributions in each area are carefully considered.

PSCI 450 Campaigns and Elections

3 hours. Considers issues surrounding American campaigns and elections. Special emphasis is placed on the role of political parties and the voting behavior of individuals and groups.

PSCI 475 Field Experience

2–12 hours. Supervised experiences in varied government agencies. For upper-division students only, by permission.

PSCI 490 Senior Seminar

3 hours. This capstone course requires majors to think in a sophisticated manner about the relationship between their Christian faith and politics. As well, students will complete a major project that requires them to draw together skills and information they have learned in lower level courses.

PSYCHOLOGY

PSYC 150 General Psychology

3 hours. An introduction to the scientific study of human behavior. Major topics include the biological bases of behavior, sensation, perception, thinking, learning, memory, 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.

PSYC 275 Exploratory Field Experience

2–3 hours. An opportunity to observe professionals in the helping environment.

PSYC 300 Group Dynamics

3 hours. A study and application of principles and techniques involved in interaction of individuals within various groups. (Identical to SOCI 300.) Prerequisite: PSYC 150 General Psychology.

PSYC 310 Life Span Human Development

3 hours. Offered 2003-04. A study of physical, intellectual, personality, social, and moral development from infancy to old age. (Identical to SWRK 310.) Prerequisite: PSYC 150 General Psychology.

PSYC 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 FCSC 311, SWRK 311.) Prerequisite: PSYC 150 General Psychology.

PSYC 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 PSYC 311 Human Development: Infancy to Adolescence. Prerequisite: PSYC 150 General Psychology.

PSYC 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.

PSYC 330 Personality Theories

3 hours. A survey of the major theorists of personality and their theories. Included are psychoanalytic, dispositional, phenomenological, and behavioral theories. An integrative approach will involve synthesis of important elements of theory and Scripture. Prerequisite: PSYC 150 General Psychology.

PSYC 340 Statistical Procedures

3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making. (Identical to MATH 240 and SOCI 340.) Prerequisites: PSYC 150 General Psychology, and high school algebra or equivalent.

PSYC 350 Social Psychology

3 hours. Offered 2003-04. 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 SOCI 350.) Prerequisite: PSYC 150 General Psychology.

PSYC 360 Learning

3 hours. Offered 2003-04. A survey of learning theories and the basic research questions being asked in this important field. Special emphasis will be placed on translating experimental theory into practical methods. Current approaches to learning, and the impact of computer models on learning theory, also will be explored. Prerequisite: PSYC 150 General Psychology.

PSYC 361 Learning Lab

1 hour. Offered 2003-04. Students will replicate classic experiments that highlight the difference between Operant and Classical conditioning, and explore shaping, blocking, higher-order conditioning, and transfer of learning. *Must be taken concurrently with PSYC 360 Learning.* Prerequisites: PSYC 340 Statistical Procedures, PSYC 390 Research Methods.

PSYC 370 Cognition

3 hours. Offered 2002-03. Traditional areas of study in cognitive psychology will be discussed. These areas include perception, attention, memory, reasoning, problem solving, and language. Traditional views as well as current trends will be discussed. Prerequisite: PSYC 150 General Psychology.

PSYC 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 PSYC 370 Cognition.* Prerequisites: PSYC 340 Statistical Procedures and PSYC 390 Research Methods.

PSYC 381 Counseling

3 hours. A study of theory and technique of person-centered counseling. The course is designed to teach basic theoretical postulates and to focus on effective intervention skills for those anticipating future work in Christian ministries, teaching, or mental health settings. *Open to sophomores and above. (Identical to CHMN 381.) Recommended as a prerequisite for field experience work (PSYC 475).* Prerequisite: PSYC 150 General Psychology. Recommended: PSYC 330 Personality Theories.

PSYC 382 Advanced Counseling

1 hour. This course builds on the knowledge and skills learned in PSYC 381 Counseling. The course is designed to enhance the clinical skills necessary to form a therapeutic relationship and to connect these skills to a theoretical orientation. A focus of the course is on utilizing counseling skills in various settings including schools and clinics, and with various populations. Prerequisite: PSYC 381 Counseling. Recommended: PSYC 330 Personality Theories.

PSYC 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: PSYC 150 General Psychology, PSYC 340 Statistical Procedures.

PSYC 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: PSYC 390 Research Methods.

PSYC 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 PSYC 400 Psychometrics.*

PSYC 410 Sensation and Perception

3 hours. Offered 2003-04. 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: PSYC 150 General Psychology.

PSYC 411 Sensation and Perception Lab

1 hour. Offered 2003-04. 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 PSYC 410 Sensation and Perception.* Prerequisites: PSYC 340 Statistical Procedures, PSYC 390 Research Methods.

PSYC 420 Abnormal Psychology

3 hours. A study of the nature, causation, and treatment of the major psychiatric and behavioral disorders. Prerequisite: PSYC 150 General Psychology.

PSYC 440 Psychology of Religion

3 hours. This course will cover topics such as the human experience of the divine, the psychology of religious development, the psychology of dogmatic beliefs, ritual religious psychopathology, the psychology of conversion, and the psychology of faith. The course will also discuss and critique the body of research on religious behaviors. Prerequisite: PSYC 150 General Psychology.

PSYC 450 Systems of Psychology

3 hours. The history of the various schools of psychology, their origins, distinguishing characteristics, major contributions, theoretical positions, and contemporary issues are investigated. *Required for psychology majors and minors.* Prerequisite: PSYC 150 General Psychology.

PSYC 460 Physiological Psychology

3 hours. Offered 2003-04. 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: PSYC 150 General Psychology.*

PSYC 475 Field Experience

2-10 hours. Supervised experiences in helping activities in mental health agencies and institutions. A maximum of 3 hours may be applied toward a psychology major. *For upper-division majors only, by permission. Recommended: PSYC 381 Counseling.*



PSYC 485 Selected Topics

1-3 hours. A course dealing with various topics, as announced, that represent current faculty interests and competencies and student interest. Previous offerings have included advanced counseling, biological psychology, psychology of religion, and psychology of gender. *Prerequisite: PSYC 150 General Psychology.*

PSYC 490 Senior Seminar

1 hour. Integration of Christianity and psychology is emphasized. In addition, students make preparations for careers in psychology. *Required for all psychology majors. Prerequisite: Senior standing.*

PSYC 495 Special Study/Research

1-3 hours. Independent study of subjects outside regular offerings and/or supervised research under the direction of faculty. Guiding bibliographies are provided, and regular reading reports and conferences are scheduled. *For upper-division psychology majors only, by permission.*

RELIGION

Note: All students must take as their senior capstone course their choice of RELI 470, RELI 480, or RELI 490. Each of these offerings is designed to integrate Christian faith and culture meaningfully.

RELI 230/430 Sociology of Religion

3 hours. A sociological examination to the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to SOCI 230/430.)

RELI 250 Great Moments, Key People in Christianity

2 hours. An introduction to the major events and personalities, Western and non-Western, that have shaped the development of Christianity from the time of Jesus to the present. The thought and contributions of individual men and women will be explored in historical context. Significant doctrines will be examined in relation to persons and events.

RELI 260 History and Doctrine of Friends

2 hours. This course explores the rich heritage of the Quaker movement in its historical, social, and religious settings. The distinguishing beliefs of Friends and contemporary trends also will be studied, with particular interest in how to apply timeless truths in timely ways.

RELI 270 History and Doctrine of _____ (Selected Churches)

2 hours. Offered upon sufficient demand by denominational leaders, who supply the appropriate course descriptions.

RELI 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 INTL 330.)

RELI 360 Cross-Cultural Christian Outreach

3 hours. Offered 2003-04. Cross-cultural communication in Christian ministry, focusing on the concepts of identification, mutuality, the process of cultural change from a biblical perspective, and strategies for cross-cultural outreach.

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RELIGION

RELI 380 Christian Beliefs

3 hours. As an introduction to Christian theology, this course considers the basic doctrines of the Christian faith and their application to contemporary living.

RELI 385 Quaker Seminar

1 hour. Designed to address topics of interest to Friends and matters of Quaker faith and practice. Topics will vary from semester to semester, and include sacramentality, worship and ministry, peace and social work, evangelism, leadership, decision making, and Christian testimonies.

RELI 401 Christianity in History

3 hours. Offered 2003-04. The development of Christianity from its appearance within the Greco-Roman world through the medieval period, and its influence as a base for culture in the West. (Identical to HIST 401.)

RELI 402 Christianity in History

3 hours. Offered 2003-04. Christianity's development from the dawn of the Protestant Reformation through its global spread during the modern era, observing its historical context and relationships to the surrounding cultures. (Identical to HIST 402.)

RELI 440 World Religions

3 hours. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Islam, Hinduism, and contemporary kinds of alternative religion. (Identical to INTL 440.)

RELI 460 Issues in Contemporary Missions

3 hours. Offered 2003-04. Selected movements, trends, and leaders of contemporary Christian missions are studied. Lectures, readings, and learning activities are chosen to provide tools and methods for continuing education in missiology.

RELI 470 Christian Classics

2 hours. Certain Christian writings have endured the test of time and have been found to be a rich source of spiritual nourishment. A representative sampling of these significant works representing the life and thought of Christians from the second to the mid-20th century will be considered. *As this is a senior capstone course, students must be juniors or seniors.*

RELI 480 Spiritual Formation

2 hours. An exploration of how people grow and change spiritually. The study integrates biblical insights, classic Christian spirituality, developmental theory, and contemporary individual and corporate practice in spiritual formation. It will critically explore how spirituality

relates to vocation, relationships, and the demands of daily living. *As this is a senior capstone course, students must be juniors or seniors.*

RELI 490 Contemporary Religious Life

2 hours. The movements, trends, and leaders of contemporary Christianity are studied in their social setting. Lectures and readings are chosen to provide tools and methods for thoughtful and continuing interpretation of religious life. *As this is a senior capstone course, students must be juniors or seniors.*

RELI 495 Special Study

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

SOCIOLOGY

SOCI 150 Principles of Sociology

3 hours. An introduction to the study of society, including the study of the shared relationships that create social organization and social processes of society. *Required for sociology majors and for admission into the social work major.*

SOCI 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.

SOCI 230/430 Sociology of Religion

3 hours. A sociological examination to the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to RELI 230/430.)

SOCI 250 International Conflict and Peace

3 hours. Offered 2002-03. An introduction to peace studies. Useful both as a foundation for other peace studies courses and as a single course to fit in with other majors. Includes exploration of the history of warfare and peacemaking, and of nonviolent alternatives to war. (Identical to PSCI 250.)

SOCI 260 Social Theory

3 hours. A critical study of major social philosophers from Comte to the present. (Identical to PHIL 260.) *Prerequisite: SOCI 150 Principles of Sociology or PHIL 210 Introduction to Philosophy. Required for sociology and social work majors.*

SOCI 275 Exploratory Agency Experience

3 hours. An opportunity to participate in a variety of activities within a social service agency for the purpose of testing interests and talents. *By permission.*

SOCI 280 Marriage and the Family

3 hours. A study of marriage and the family from a sociological perspective, including historical, cross-cultural, and economic backgrounds. A Christian faith perspective will emphasize the worth of people, the importance of the family as a place of nurture, and the gift of marriage. (Identical to FCSC 280 and HLTH 280.)

SOCI 285 Selected Topics

1–3 hours. A seminar dealing with topics of special interest to students and current faculty.

SOCI 300 Group Dynamics

3 hours. A study and application of principles and techniques involved in interaction of individuals within various groups. (Identical to PSYC 300.) *Prerequisite:* SOCI 150 *Principles of Sociology.*

SOCI 310 Cultural Anthropology

3 hours. A comparative study of world societies and their ways of life. (Identical to INTL 310.)

SOCI 320 Men and Women in Society

3 hours. *Offered 2002-03.* A study of how societies construct gender similarities and differences. The impact of gender upon individuals and social institutions, and the implications of a sociological understanding of gender for the Christian faith will be explored.

SOCI 340 Statistical Procedures

3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making. (Identical to PSYC 340 and MATH 240.) *Recommended for the sophomore or junior year. Required for sociology and social work majors. Prerequisites:* SOCI 150 *Principles of Sociology, high school algebra.*

SOCI 350 Social Psychology

3 hours. *Offered 2002-03.* A study of the theories and methods of social interactions in the development of personal and group behavior. The major aim is to encourage an appreciation of the relationship between personal and situational determinants of social behavior. *Prerequisite:* SOCI 150 *Principles of Sociology, or instructor's permission.*

SOCI 360 Crime and Deviance

3 hours. *Offered 2002-03.* An introduction to the study of deviance and criminology, including theoretical and paradigms and research.

SOCI 380 Race, Ethnicity, and Class I

3 hours. *Offered 2002-03.* An interdisciplinary study of the history, problems, and present status, social attitudes, and generalist practice issues involved in working with people of differing racial, ethnic, and class backgrounds in the United States. *Prerequisites:* SOCI 150 *Principles of Sociology, or instructor's permission.*

SOCI 390 Research Seminar

3 hours. An overview of quantitative and qualitative research methods in the social sciences. Students will design a research project. *Required for sociology and social work majors. Prerequisites:* SOCI 150 *Principles of Sociology, SOCI 260 Social Theory, SOCI 340 Statistical Procedures.*

SOCI 410 Juvenile Delinquency

3 hours. *Offered 2002-03.* A study of the causes and nature of juvenile delinquency, the development of the juvenile court, probation, and other rehabilitative programs. *Prerequisite:* SOCI 150 *Principles of Sociology, or instructor's permission.*

SOCI 450 Aging in Society

3 hours. *Offered 2003-04.* 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 SWRK 450.) *Prerequisite:* SOCI 150 *Principles of Sociology or instructor's permission.*

SOCI 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 SOCI 275/475 Field Experience is required of majors. By permission.*

SOCI 485 Selected Topics

1–3 hours. A special-interest course that addresses current topics in the field of sociology. Course offerings depend on current faculty competencies and student interest. Previous offerings have included a Christian response to the contemporary family, criminal justice, cross-cultural education, death, and dying, Native American cultures, sociology of religion, sociology of adolescence, and sociology of literature. *Limited to upper-division majors. Prerequisite:* SOCI 150 *Principles of Sociology.*

SOCI 495 Special Study

1–3 hours. Independent study of subjects outside regular offerings. Guiding bibliographies are provided, and regular reading reports and conferences are scheduled. *For upper-division majors only, with permission.*

S

SPANISH

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.

SPAN 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 SPAN 102, students should have novice high proficiency as defined by the American Council of the Teaching of Foreign Languages (ACTFL). *Placement test required.*

SPAN 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 SPAN 202, students should have intermediate mid proficiency as defined by ACTFL. *Prerequisite: Placement test or SPAN 102 Elementary Spanish.*

SPAN 275/475 Field Experience

1–10 hours. Supervised experience in a situation demanding extensive use of Spanish. *Admission and credit hours determined by instructor.*

SPAN 285/485 Selected Topics

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

SPAN 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: SPAN 202 Intermediate Spanish, or placement by exam.*

SPAN 340 Spanish Culture and Civilization

3 hours. An introduction to the cultures and civilizations of the Iberian Peninsula. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Activities include reading authentic texts and listening to native speakers. Areas of study may include history, art, music, the role of religion, governmental systems, and gender differences. Taught in Spanish. *Prerequisite: concurrent enrollment in SPAN 301 Advanced Spanish, or instructor's permission.*

SPAN 350 Latin American Culture and Civilization

3 hours. An introduction to the cultures and civilizations of Latin America. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Activities include reading authentic texts, field trips, and listening to native speakers. Areas of study may include history, art, music, the role of religion, governmental systems, and gender differences. Taught in Spanish. *Prerequisite: SPAN 302 Advanced Spanish or concurrent enrollment in SPAN 302, or instructor's permission.*

SPAN 375 Field Experience: Study Abroad

2 hours. A journal and a paper are required as part of the study abroad experience. *Taken concurrently with SPAN 490 Study Abroad. Required for Spanish majors. By permission.*



SPAN 410 Introduction to Spanish Literature

3 hours. A one-semester introduction to Spanish peninsular literature. This course introduces students to selected masters and periods of Spanish literature and reflects on matters of faith as revealed in the pieces studied. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Taught in Spanish. *Prerequisite: SPAN 302 Advanced Spanish, or instructor's permission.*

SPAN 420 Introduction to Latin American Literature

3 hours. This course introduces students to selected masters and periods of Latin American literature and reflects on matters of faith as revealed in the pieces studied. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Taught in Spanish. *Prerequisite: SPAN 302 Advanced Spanish, or equivalent.*

SPAN 480 Senior Capstone

3 hours. This course synthesizes all the student's skills in Spanish. It includes a portfolio of written work,

an oral proficiency interview, and a service-learning project. Meetings with professor focus on integration of faith and learning. Preferably taken after semester abroad.

SPAN 490 Study Abroad

16 hours minimum. A one-semester overseas experience. Students take university courses while living abroad in Spain or Latin America. *Application and junior standing or above required. All programs of study subject to the approval of the Spanish faculty and the director of overseas study. Majors must also enroll in SPAN 375 Field Experience: Study Abroad.*

SPAN 495 Individual Research or Fieldwork

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.*

SOCIAL WORK

SWRK 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.*

SWRK 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.*

SWRK 310 Life Span Human Development

3 hours. Offered 2002-03. A study of physical, intellectual, personality, social, and moral development from infancy to old age. (Identical to PSYC 310.) *Required for majors. Prerequisite: PSYC 150 General Psychology.*

SWRK 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: PSYC 150 General Psychology and SOCI 150 Principles of Sociology, or instructor's permission.*

SWRK 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. *Required for majors. Prerequisites: PSYC 150 General Psychology, SOCI 150 Principles of Sociology, SWRK 180 Introduction to Social Welfare, and SWRK 310 Life Span Human Development, or instructor's permission.*

SWRK 391 Social Work Practice I

3 hours. A study of generalist social work practice with individuals. Microlevel theory, skills, and interviewing techniques are applied to generalist social work. The course will cover theory and techniques of person-centered case management that are specifically applicable to work with individuals. *A prerequisite for Field Experience/Practicum I (SWRK 475). Required for majors. This class is open to declared social work majors only. Prerequisites: PSYC 150 General Psychology, SOCI 150 Principles of Sociology, SWRK 180 Introduction to Social Welfare, and formal admission into the social work program.*

SWRK 392 Social Work Practice II

3 hours. A study of mezzo-level generalist social work practice with families and groups. Attention is given to a systems framework of generalist social work practice, with a particular focus upon assessment and development of appropriate intervention strategies. *A prerequisite for SWRK 476 Field Experience/Practicum II. Required for majors. This class is open to declared social work majors only. Prerequisite: SWRK 391 Social Work Practice I.*

SWRK 393 Social Work Practice III

3 hours. An overview of generalist social work methods practiced with organizations and communities. Attention is given to assessment, planning, implementation, and evaluation of macro-level systems. *A prerequisite for SWRK 477 Field Experience/Practicum III. Required for majors. This class is open to declared social work majors only. Prerequisite: SWRK 392 Social Work Practice II.*

SWRK 400 Child Welfare Services

3 hours. Offered 2003-04. 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 wel-

fare and supportive services. *Prerequisites: SOCI 200 Social Issues, SWRK 180 Introduction to Social Welfare, or instructor's permission.*

SWRK 450 Aging in Society

3 hours. Offered 2002-03. 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 SOCI 450.) *Prerequisite: SOCI 150 Principles of Sociology or instructor's permission.*

SWRK 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. *Required for majors. Prerequisites: SWRK 180 Introduction to Social Welfare, SOCI 200 Social Issues, PSCI 150 Introduction to Political Science, PSCI 190 American Government or PSCI 240 State and Local Government, SWRK 475 Field Experience/Practicum I, or instructor's permission.*

SWRK 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 advocacy, and 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. *Required for majors. Prerequisites: SWRK 461 Social Policy I, SWRK 476 Field Experience/Practicum II, or instructor's permission.*

SWRK 475 Field Experience/Practicum I

3 hours (150 practicum hours in the agency). The first course of the field experience/practicum sequence will emphasize micropractice concepts and address orientation to the agency environment; student roles and responsibilities; agency roles and responsibilities; confidentiality issues; nature and process of supervision; establishing goals and objectives; models of integrating classroom learning with the field practicum; person-in-environment; interviewing techniques; identification of research and policy issues; work with special populations and injustices; process recordings; research methods in the agency; and ethical conduct/NASW code of

ethics. *Required for majors. This class is open to declared social work majors only. Recommended spring of the junior year. Prerequisite: SWRK 391 Social Work Practice I.*

SWRK 476 Field Experience/Practicum II

3 hours (150 practicum hours in the agency). Ideally, SWRK 476 and 477 will occur in a full-year practicum during the student's senior year. The second course in the field experience/practicum sequence will build upon knowledge and experience acquired in SWRK 475 and emphasize mezzo-practice concepts. Course topics will include work with small groups, families; integrating research and evaluation methods in the field experience/practicum; agency evaluation and analysis; referral processes; work with special populations/injustices; ethical dilemmas; ethical conduct/NASW code of ethics; agency recording process; and development of a student portfolio of practicum projects and skills. *Required for majors. This class is open to declared social work majors only. Prerequisites: SWRK 475 Field Experience/Practicum I, SWRK 392 Social Work Practice II.*

SWRK 477 Field Experience/Practicum III

3 hours (150 practicum hours in the agency). Ideally, SWRK 476 and 477 will occur in a full-year practicum during the student's senior year. The third course in the field experience/practicum sequence will provide further depth and integration of theory, classroom learning, and experience within the student's field experience/practicum, building on concepts developed in SWRK 476 and emphasizing macropractice concepts. Additional topics will include work with agency boards, communities, governmental systems; implementation of a research project in the agency; community analysis; termination with clients and the agency; addressing social inequities in the student's field experience/practicum; work with special populations and injustices; policy issues; and ethical conduct/NASW code of ethics. *Required for majors. This class is open to declared social work majors only. Prerequisites: SWRK 476 Field Experience/Practicum II, SWRK 393 Social Work Practice III, and SOCI 390 Research Seminar.*

SWRK 485 Selected Topics

1-3 hours. A special-interest class that addresses a relevant subject in the field of social work. Previous and projected subjects include, but are not limited to, administration and community planning; cognitive and behavioral theories; crisis and trauma recovery; current issues in social work; medical and mental health services; systemic and ecologic theories; social policy; and treating addictive behaviors. *Prerequisites: SOCI 200 Social Issues, SWRK 180 Introduction to Social Welfare.*

SWRK 490 Senior Seminar

3 hours. A required course for majors to be taken during the spring semester of the senior year. The course will focus on consolidating substantive knowledge regarding 1) social welfare policies and services, 2) human behavior in the social environment, 3) the structure and function of communities and human service organizations, 4) methods of inducing change across the micro-, mezzo-, and macrolevels, and 5) methods of scientific inquiry necessary to assess human problems and the effectiveness of professional interventions. Focus also will be upon the integration of social theories with faith and learning. *Required for majors. Prerequisite: SWRK 392 Social Work Practice II.*

SWRK 495 Special Study

1-3 hours. Independent study of subjects outside regular offerings. Guiding bibliographies are provided, and regular reading reports and conferences are scheduled. *For upper-division majors only, by permission.*



THEATRE

THEA 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.

THEA 125/325 A, B, C Theatre Laboratory

1-2 hours. The practical application of theatre techniques in connection with dramatic productions. Open to any student taking part in a production. A denotes acting, B directing, and C technical options. May be repeated for a maximum of 8 hours total.

THEA 160/360 Improvisational Theatre Workshop

2 hours. Focus on development of improvisational

skills through structured and directed psychological, physical, and social exercises. May be repeated once for credit.

THEA 165/365 George Fox University Players: Drama Touring Troupe

1 hour each semester. Participation in theatre's traveling ensemble. Students must remain with the troupe the entire year. May be repeated to a maximum of four hours credit. *Entrance to the course by audition and invitation.*

THEA 220 Oral Interpretation of Literature

3 hours. Introduction to the aesthetic bases of speech communication through the analysis and performance of various genres of literature. Attention given to performance of biblical literature, literature of diverse cultures, and the art of storytelling.

THEA 240 Understanding Drama

3 hours. A study of significant plays from the classical period to the present, both as literary works and staged productions, the goal being a deeper understanding and appreciation of drama as a symbolic form. Primary focus is on literary values, with attention also given to the constraints and interpretations embodied in the staging, acting, and directing of a play. (Identical to LITR 240.)

THEA 255/455 Technical Theatre

3 hours. Offered 2003-04. A study of major areas of technical theatre, with emphasis on set design and construction, lighting design, and sound as applicable to educational, professional, and church drama.

THEA 275/475 Field Experience

1-10 hours. Offered summers only. Supervised experience with off-campus professional, community, church, or camp theatre productions or drama programs. The experience may include acting, directing, technical production, publicity, management, therapy, or any combination thereof. *Enrollment by instructor's permission.*

THEA 285/485 Special Topics

3 hours. Characteristically offered as part of May Term. Special courses offered occasionally to meet the needs and interests of students, professors, and visiting professors, specifically including technical theatre.

THEA 320 Advanced Approaches to Acting

3 hours. Offered 2002-03. Problems of characterization, styles, and characteristics of acting in various dramatic media; emphasis on improvisations, instruction in movement and timing, and presentation of scenes of various types. *The course requires additional outside-of-class time for rehearsal and performance of selected plays. Prerequisite: Instructor's permission.*

THEA 340 Theatre as Ministry

3 hours. Offered 2002-03. A consideration of theatre skills as tools for meeting human needs in essentially nontheatrical environments. Focus on drama as a service medium rather than as strictly an entertainment vehicle.

THEA 495 Individual Research in the Theatre

1-3 hours. Open to exceptional students who want to explore a specific area in greater depth. *Entrance at the discretion of a faculty member.*

WRITING

WRIT 095 English Skills

1-3 hours. Offered fall semester as a regular class and other times as individualized study. Focuses on spelling, reading, composition, and research skills necessary for effective college learning.

WRIT 110 Freshman Composition

3 hours. A course concentrating on expository writing, with an introduction to basic research methods. Argumentative writing is also introduced.

WRIT 200 Understanding Literature

3 hours. An approach to research and writing as a tool for understanding literary texts. Emphasis is placed on providing the knowledge and practice needed to produce original literary scholarship. *Prerequisite: WRIT 110 Freshman Composition, or equivalent, or SAT score of 670.*

WRIT 210 Practical Grammar and Editing

3 hours. This course will help those who want to understand and to be able to explain to others what can be done to make writing correct, clear, and precise. Focuses on constructing, editing, and correcting sentences and paragraphs. *This is not a remedial course. Students may need WRIT 095 English Skills as a prerequisite.*

WRIT 230 Introduction to Journalism

3 hours. A course designed to give fundamental knowledge and experience in reporting, writing, and editing news for the print media. *Prerequisite: WRIT 110 Freshman Composition, or equivalent, or SAT score of 670.*

WRIT 250 Biography and Autobiography

3 hours. An approach to writing and literature using personal experience to explore events, places, and people through recollections, interviews, diaries, journals, and the personal essay. Selected writers, ancient to contemporary, will be studied as representative models of the form within the genre. *Prerequisite: WRIT 110 Freshman Composition, or equivalent, or SAT score of 670.*

WRIT 285/485 Special Topics

3 hours. Occasional special courses chosen to fit the needs and interests of faculty, visiting professors, and students.

WRIT 310 Professional Writing and Desktop Publishing

3 hours. Centers on the study and practice of writing used by communication-writing professionals and others in organizational contexts. Particular emphasis is on desktop publishing and promotional types of writing, including design and production of brochures, newsletters, news releases, memos, position papers, and other promotional pieces. *Prerequisite: WRIT 110 Freshman Composition, or instructor's permission.*

WRIT 330 Writing for Publication

3 hours. A workshop approach to the writing of non-fiction articles and other shorter nonfiction forms for periodical magazines. Student-produced material will be submitted to various magazines as part of course expectations. Special attention will be given to Christian periodical markets. *Prerequisite: WRIT 110 Freshman Composition, or instructor's permission.*

WRIT 360 Writing Fiction

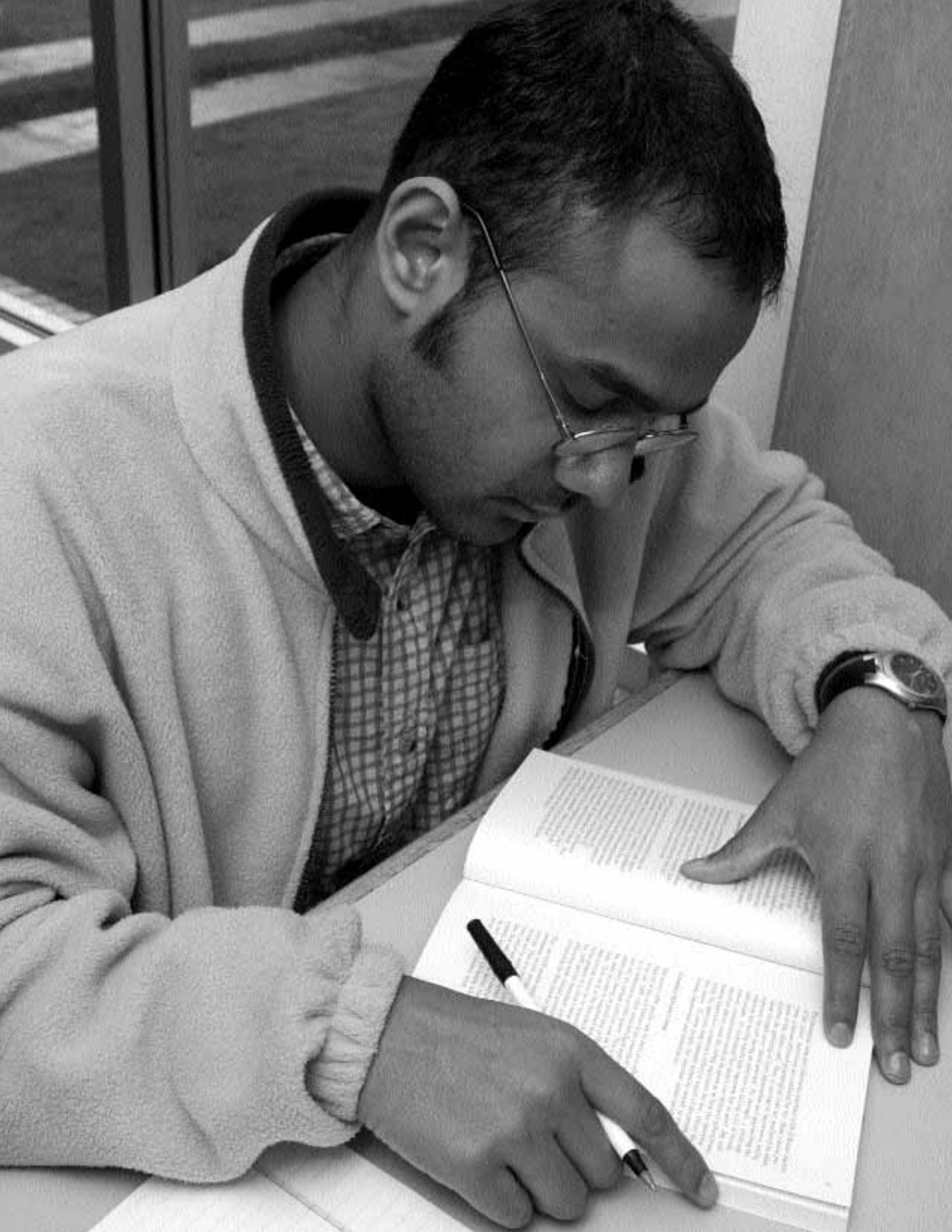
3 hours. A workshop approach to the writing of fiction. Students will write and prepare for publication original works. *Prerequisite: WRIT 110 Freshman Composition, or instructor's permission.*

WRIT 370 Writing Poetry

3 hours. A workshop approach to the writing of poetry. Students will write and prepare for publication original works. *Prerequisite: WRIT 110 Freshman Composition, or instructor's permission.*

WRIT 495 Individual Research

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



VI
ACADEMIC SUPPORT
PROGRAMS



*“The empires of the future
are the empires of the mind.”*

— Winston Churchill

LIBRARIES

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

George Fox University maintains libraries at both the Newberg and Portland Center campuses. The Murdock Learning Resource Center (MLRC) is a three-story, 35,000-square-foot building serving the Newberg campus from a central location. The MLRC houses 124,000 volumes and receives nearly 900 periodical titles. Several thousand full-text periodicals are also available online from both the Newberg campus and the Portland Center. The MLRC has several special collections, including the Quaker Collection of basic Quaker books, pamphlets, and periodicals. The archives of Northwest Yearly Meeting of Friends Church and of George Fox University, dating from the 1880s, are preserved in a special room. The Hoover Collection contains materials written about President Herbert Hoover and his administration. The Peace Collection contains books and periodicals pertaining to conflict resolution and international peacekeeping.

The Portland Center library houses nearly 63,000 print volumes and receives more than 300 periodicals. The collection is especially strong in religion and counseling. Also located in the Portland Center library are the archives of George Fox Evangelical Seminary.

The University's online library catalog provides access to the holdings of both the Murdock Learning Resource Center and the Portland Center library. Students at one site may request books from the other location through the catalog. The library system is a member of OCLC, with direct access to a database of 48 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 Orbis Borrowing students may request books from other libraries, normally receiving them within three working days. Consortia agreements permit George Fox students to borrow from the Portland State University library, as well as numerous other private and state university libraries in Oregon and Washington.



ON-CAMPUS ACADEMIC PROGRAMS

Academic Success Program

A limited number of carefully selected students who do not meet regular admission standards are welcomed to the George Fox University Academic Success Program each fall. Admitted provisionally to the University, ASP

students attend an afternoon orientation before other students arrive. Under the individualized guidance of the ASP director and faculty advisors, they register for fall courses. Tutorial assistance and other aids are available, as needed. Total credit hours are limited to 14 for fall semester.

Academic Symposia

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

Center for Peace Learning

The Center for Peace Learning was established in 1984 after a growing concern among administrators, faculty, and students that George Fox University should

have an active learning program dealing with peacemaking and conflict resolution. Planning for the center was the specific result of searching questions about the University's contribution to peacemaking made by Senator Mark Hatfield in his address at the 1984 inauguration of President Edward Stevens. Hatfield now teaches at George Fox, including peace studies.

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

The Center for Peace Learning conducts a study program in conflict management to prepare students for practical peacemaking in their work, church, community, and family. (See page 53.) Certificates are awarded upon completion of the program, details of which are presented in the Peace and Conflict Studies section of this catalog.

Computers Across the Curriculum

This program provides a computer for every full-time traditional undergraduate student. (Students attending fewer than eight semesters will pay an additional fee.) The purpose of the program is to enhance the experience of teaching, learning, and research during the years spent in college. Students use their computers to make classroom presentations, share software programs and documents, communicate and conference via e-mail, access the Internet, and develop software specifically for their courses. Instructional software programs developed at other colleges and universities also are used in the classroom and laboratory.

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

English Language Institute

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

Freshman Seminar Program

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

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

Intensified Studies Program

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

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

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

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 GEED 375 Cultural Experience. See Field Education on page 123.

Also offered during the summer months are degree-completion courses in social and behavioral studies, management and organizational leadership, management and business information systems, and management of human resources programs.

OFF-CAMPUS PROGRAMS

Tilikum Retreat Center

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

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

CCCU and CCCE Programs

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

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

George Fox student participants must be approved by a campus selection committee. Selection will be determined based on the student's academic and citizenship standing (minimum 3.0 grade point average required) and on the applicability of the study program to the student's major field of study. Applications for participation are available in the registrar's office.

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

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

American Studies Program

The American Studies Program, sponsored by the Council for Christian Colleges and Universities, is designed for juniors and seniors with a wide range of academic majors and vocational interests. Students are

involved in the American Studies Program for periods of three or four months. The internship/seminar opportunity is available starting in September and in January.

The American Studies Program was created to provide field experience and study opportunities in Washington, D.C., for diverse majors and personal interests. The program is based on the principle of integrating faith, learning, and living through both a real-life work experience and a study program. Students spend their time in Washington serving as interns, participating in a contemporary, issues-oriented seminar program, and living in a



small Christian community. Internships are available in congressional offices, social service agencies, think tanks, cultural institutions, and many other organizations. Further information and application forms are available from the registrar.

Consortium Visitor Program

The Christian College Consortium Exchange, described on page 122, sponsors a student visitors program intended as an enrichment to those disciplines where personnel and courses may be somewhat limited. Normally this one-semester experience should be part of the junior year or the first semester of the senior year. Application forms and a descriptive brochure are available from the registrar.

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

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

Field Education

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

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

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

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

___ 275	1 to 3 credit hours
GEED 375	2 to 12 credit hours
___ 475	2 to 12 credit hours

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

faculty sponsor and student interrelate.

Evaluation of the field experience is based upon successful completion of the stated individualized objectives in the learning plan. Field experience is graded pass/no pass.

International Trade Institute

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

Los Angeles Film Studies Center

Under the direction of the Council for Christian Colleges and Universities, the Los Angeles Film Studies Center makes a "Hollywood Semester" available to upper-division George Fox University students who qualify and who are accepted. Its purpose is to enable college students to serve in various aspects of the film industry with professional skill and Christian integrity. Located in Burbank near major production studios, the semesterlong program combines seminar courses with internships in various segments of the film industry, providing the opportunity to explore the industry within a Christian context and from a liberal arts perspective. The Los Angeles Film Center program may be of particular interest to students majoring in cinema and media communication with a concentration in film studies. Students who complete the semester may then apply for a semesterlong internship in their field of interest. See the registrar for further details and application forms.

OICA Cross-Registration

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

Oregon Extension

The Oregon Extension offers a fall semester of community living and interdisciplinary studies. Forty students from across the country earn 15 hours credit in eight disciplines, studying one course at a time and living in wood-heated cabins in the Cascade Mountains of southern Oregon. Open to juniors and seniors (and determined sophomores) with a 3.0 grade point average, the seminar-style program focuses on contemporary soci-



ety, human stories, and social theory as they relate to Christianity. Small group discussions and writing tutorials ensure increased academic confidence in speaking, writing, and critical reading. Backpacking, rafting, a San Francisco trip, and no weekend assignments round out the program.

Oregon Theological Consortium Cross-Registration

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

ROTC Program

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

OVERSEAS STUDY PROGRAMS

Juniors Abroad

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

1. Students must have maintained three consecutive years of full-time enrollment. Transfer students may receive partial support for transportation expenses; requests for such support should be made to the director of overseas study.
2. Students will include tuition costs of this course as part of their block tuition for the spring semester preceding the May tour, and will be billed for whatever credits exceed the 18-hour limit.
3. Students will pay room and board in advance for each tour, to be economically arranged by the University. For the typical Juniors Abroad study tour, the University will pay the full transportation cost for eligible students. On occasion, a tour with unusually high costs may involve a transportation surcharge.
4. Students must have a minimum cumulative grade point average of 2.0 at the end of the fall semester preceding the May tour.
5. Students must be in good standing with the Office of Student Life in the fall and spring semesters preceding the May tour (see page 18).
6. Students must intend to return and graduate from George Fox University.
7. Student accounts must be current as of February 15 the year of the tour.
8. The University reserves the right to withdraw from this program and commitment prior to fall registration in any year. Students already registered under the program are guaranteed the tour.
9. The University reserves the right in the event of an international monetary, military, or other crisis to cancel or postpone a tour or to make substitute arrangements.
10. The University does not obligate itself to alternative remuneration to students who cannot go, who decide not to go, or who are ineligible to go on a Juniors Abroad study tour.
11. Students (or alumni or friends of the University) who are ineligible for free transportation may apply to join a study tour and pay their own transportation and tuition.

China Studies Program

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

Latin American Studies Program

Based in San Jose, Costa Rica, the Latin American Studies Program, under the direction of the Council for Christian Colleges and Universities, offers a semester of study and travel in Central America. Students live with Costa Rican families, participate in a service opportunity or internship, travel to other Latin American countries, and engage in both a language and a seminar program. Seminars deal in depth with Latin American culture, history, politics, economics, and religious life. Three specialized academic tracks — advanced language and literature studies, international business and management, and tropical sciences — are available to qualified students.

Middle East Studies Program

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

Oxford Honors Program

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

Russian Studies Program

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

Study in Africa Program

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

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

Study in France Program

Students may apply to study in France for one semester through a program offered by Grace College of Winona Lake, Indiana. This program is designed for students minoring in French. Students live abroad and take university courses at the Centre d'études francaises de l'Université de Bourgogne in Dijon, France, in the spring or at the Centre d'études de La Sorbonne in Paris, France, in the fall. Course work is determined by placement exam and is dependent on proficiency level. Course work includes language development classes, French civilization studies, and the history of art. Application, com-

pletion of FREN 302, and junior standing or above are required. All programs of study are subject to the approval of the French faculty and the director of overseas study.

Study in Spain Program

Students may apply to study in Spain for one semester through a cooperative agreement with Trinity Christian College of Palos Heights, Ill. The Study in Spain Program is designed primarily for students majoring or minoring in Spanish. Students study in Seville, Spain, and live in local homes while attending classes with students from Trinity and other colleges. Application to the program must be coordinated with foreign language faculty. Students must complete forms related to off-campus study available in the registrar's office.

Study in Xalapa (Mexico) Program

Students may apply to study in Xalapa, Mexico, for one semester through a cooperative agreement with Brethren Colleges Abroad. The study program in Xalapa is designed primarily for students minoring or majoring in Spanish. The program begins with three weeks of intensive language study and homestay in Cuernavaca. The students then move on to Xalapa where they live with a local family and attend classes at the Language Institute at the Universidad de Mexico. They may also elect to take regular college courses at the university. There is an additional fee for this program. Application to the program must be coordinated with foreign language faculty. Students must complete forms related to off-campus study available in the registrar's office.

Further Information

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

Students must submit both the specific program application and the George Fox application for participation.



VII

ACADEMIC POLICIES



*“An education isn’t how much you’ve committed to memory,
or even how much you know. It’s being able to differentiate
between what you know and what you don’t.”*

— Anatole France

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. 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 Health and Counseling Services 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 Office of the Registrar. Permission for absence from class for participation in cocurricular University activities must be granted by the Office of Academic Affairs. 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 admission requirements.

Probation and Provisional Students

A student whose cumulative GPA falls below the level established for academic progress (see "Academic Progress and Eligibility," page 133) 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 120).

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 WRIT 095 English Skills. At the completion of a term, the Academic Standing Review Committee considers each provisional student's achievement to determine that sufficient progress has been made for continuance.

SERVICES TO DISABLED STUDENTS

Instructional assistance for disabled students is available through the learning laboratory. Where necessary, course requirements are reasonably adjusted based on students' requests and appropriate documentation.

Disabled students needing accommodations in their program or living situation should contact Enrollment Services well in advance of attendance, so that specific attention can be made to assist in providing living arrangements and learning accommodations.

REGISTRATION

The Office of the Registrar registers students for classes, provides degree audit information, and records grades. Students change their academic majors and advisors and order transcripts through this office.

All students are expected to register on the days designated on the University calendar and to begin classes on the first day. The registrar annually publishes a class schedule booklet with specifics for registration. In addition, each student should be aware of the regulations that appear under Course Numbering System on page 30.

ACADEMIC ADVISING

New freshmen may have received initial academic advisement by an admission counselor. However, all new freshmen are assigned a freshman advisor as part of the Freshman Seminar. This advisor will serve as the academic advisor for the freshman year and will also teach

a section of the Freshman Seminar. Freshmen will select a faculty advisor in their area of interest prior to their sophomore year.

Each returning, transfer, and readmit full-time student is assigned a faculty advisor to provide guidance in planning an academic program. This advisor may be changed by request as a student develops an interest area and forms natural lines of helpfulness and acquaintance. Other teachers and administrators may serve as resource persons in guidance and counseling.

It is the responsibility of the student to become familiar with policies and procedures outlined in the catalog. For example, many upper-level courses are offered in alternate years, but this should be no problem if there is advance planning and if courses are taken in the proper sequences. Advisors will aid as requested, but students must be responsible for their own programs.

ACADEMIC LOAD

The student's load will be determined in conference with the student's advisor. Sixteen hours per semester is a normal University load. Students who carry fewer hours are adding considerably to the cost of education by extending the time involved to earn their degree. Ordinarily, the first-semester freshman will register for no more than 16 hours. Provisional students will be limited to 14 or 15 hours. No student may enroll for more than 20 hours, except by special permission of the faculty advisor and the registrar.

The following is suggested as a satisfactory relationship between the student's academic load and his or her on- or off-campus work:

<i>Academic Load</i>	<i>Work</i>
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

A common rule of thumb is to anticipate three hours of study for each hour of class. Classes that meet more frequently per week than the credit given will demand less outside study.

COURSE ADDITIONS

After classes begin, a late admission to class must have the approval of the registrar and consent of the instructor involved on a form available in the registrar's office.

The last day to add courses or to exercise a pass/no pass option is established in the calendar in this catalog. See inside back cover.

COURSE WITHDRAWALS

A student wanting to drop or withdraw from a class or from the University must secure the proper form from the registrar's office. Without the form, an F is recorded for all courses involved. There is a fee of \$10 for a course withdrawal.

Withdrawal from a course (with a W) must be completed within the first nine weeks of the semester. Beyond this date, a petition to the vice president for academic affairs is required, and cause (emergency conditions) must be established. See academic calendar on page 178.

OFFICIAL WITHDRAWAL 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 Office of the Registrar 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 162 in the Compliance with Federal Laws and Regulations portion of the catalog.

THE GRADING SYSTEM

Semester grades are determined by the instructor's evaluation of the student's daily participation in class, performance on periodic tests, work on research papers and class projects, and achievement on final examinations. Grade points are assigned for each hour of credit earned according to the following system:

<i>Letter Grade</i>	<i>Meaning</i>	<i>Points per Semester Hour</i>
A	Superior	4
A-		3.7
B+		3.3
B	Good	3
B-		2.7
C+		2.3
C	Average	2
C-		1.7
D+		1.3
D	Passing but inferior	1
F	Failing	0
I	Incomplete	0
W	Official withdrawal	0
X	No grade reported by instructor	0
P	Pass (average or above)	0
NP	Not passing	0
L	Long-term	0

Plus (+) and minus (-) grades may be designated by a professor and will be entered on the transcript. Points will be calculated for the student's GPA accordingly.

The grade I is allowed if a student incurs illness or unpreventable and unforeseeable circumstances that make it impossible to meet course requirements on time. Request for an I grade is initiated with — and approved by — the registrar. A contract showing the work to be completed and the completion date is prepared in consultation with the instructor and filed with the registrar. An I not completed by the date indicated or within one semester will be changed to the grade assigned on the incomplete form.

An L grade designates satisfactory progress in a course whose objectives continue for more than one semester. The L will be replaced by either a P grade or a point-receiving grade. This is not an incomplete or I grade.

An X grade indicates the instructor did not report a grade to the registrar's office.

If a student repeats a particular course, the University counts the course credits only once toward graduation requirements. Only the second grade will count in the cumulative GPA, but the original grade will remain on the student's transcript.



The Dean's List

Those who achieve and maintain a 3.5 grade point average or above on 12 or more hours of graded work completed by the end of the semester are eligible for the dean's list.

Pass/No Pass Policy

A student who has a cumulative GPA of 2.0 or better and who has completed 62 semester hours may choose to take one course per semester on a pass/no pass basis from elective courses outside his or her major and the University's general education requirements. An application form must be filed with the registrar no later than the published deadline for exercising the pass/no pass option.

The teacher submits a regular grade to the registrar, who converts the regular grade of C- or above into a pass. A grade below C- becomes a no pass, and the course must be repeated on a satisfactory level to receive credit.

Courses offered only on a pass/no pass basis are field experience (e.g., 275/475); WRIT 095 English Skills; THEA 165/365 George Fox University Players; EDUC 375/475 Student Teaching I, II; and Juniors Abroad. (GEED 130 Freshman Seminar is pass/fail.)

Honors Colloquium (GEED 271, 272, 371, 372) will be graded pass/no pass. All other courses in the University receive grades.

ACADEMIC PROGRESS AND ELIGIBILITY

A student on regular, warning, or provisional status is considered to be making reasonable academic progress. A student's semester grades, with a semester GPA and a new cumulative GPA, are posted on the grade report given to the student within two weeks following the close of each semester. The GPA is based on George Fox University credits only.

To be eligible for student government positions, a student must maintain a GPA of 2.25 or better. To be eligible to participate in intercollegiate athletics, a student must be in academic good standing and maintain satisfactory academic progress.

A student is on probation when his or her cumulative GPA falls below the following standard: 1–15 hours, 1.7; 16–31 hours, 1.8; 32–47 hours, 1.9; and 2.0 thereafter. The student is given one semester of probation to achieve above the standard. Beginning freshmen not admitted provisionally

may be allowed two or three semesters of academic experience before suspension is administered.

Whenever the GPA for a given semester is below 2.0, but the cumulative GPA is at or above the required minimum, the student receives an academic warning. This warning is not a part of the student's permanent record, but it does alert the student of potential difficulties. The student is encouraged to contact the academic advisor, who will assist in the development of improved study plans and encourage better use of reading and library skills.

In addition to satisfactory grades, for financial aid purposes the student also must show that a degree program will be completed in six years or less given full-time attendance. This means that in addition to enrolling for at least 12 credits each semester, the student must also successfully complete a minimum number of credits each semester.

A student not achieving reasonable progress, as determined by the Academic Standing Review Committee, may be given academic suspension. After one or more semesters have elapsed, the student may apply for readmission, and if admitted, reenter provisionally. The

Academic Standing Review Committee also may recommend academic dismissal. Students who are dismissed may not apply for readmission to George Fox University.

The University may suspend or dismiss any student who fails to earn a GPA of at least 1.0 during a semester, regardless of classification or number of hours completed, or any students who become so indifferent that they no longer benefit themselves or the University community.

Academic Good Standing

To remain in good academic standing, a student must not be on academic probation and must have successfully completed at least 24 semester credits during the two most recent semesters. Students must be in good standing to be eligible to participate in intercollegiate athletics sponsored by the University. See Academic Progress and Eligibility section for warning, suspension, and probation policies.

Satisfactory Academic Progress

Satisfactory academic progress toward a degree as a full-time student is defined as completion at a rate not to exceed 150 percent of the published length of the program while maintaining a cumulative GPA of 1.7 (1–15 hours), 1.8 (16–31 hours), 1.9 (32–47 hours), and 2.0 thereafter.

Academic Appeals

Academic actions can be appealed to appropriate University authorities and an Academic Appeals Board. Appeals are taken to be good faith actions that request reexamination of academic decisions. All appeals must be made within limited time frames depending upon the action being appealed. Additional information is available in the Office of Academic Affairs.

GRADUATION REQUIREMENTS

A student wishing to receive a bachelor of arts or a bachelor of science degree must meet the following requirements:

1. Accumulate at least 126 semester hours with a minimum cumulative and major GPA of 2.0. The GPA is computed on work taken at George Fox University only;
2. Accumulate at least 42 upper-division semester hours (courses numbered 300 or above);
3. Complete the general education requirements;
4. Complete a major in a chosen area with no grade below a C- in upper-division courses;
5. Complete at least 30 semester hours in residency (20 hours must be in senior year; 20 of the last 30 hours must be completed at George Fox University);
6. Complete at least 10 hours of one's major in residency;
7. File an Application for Degree form not later than completion of 93 semester hours toward graduation (normally two semesters before expected graduation);
8. Pay in full all accounts at Student Financial Services.

In order to participate in commencement and baccalaureate ceremonies, a student must have completed all degree requirements. Exceptions include a student registered for a postcommencement May Term course that is part of the degree program, and a fourth-year engineering student eligible for the B.S. degree in applied science whose first year in a cooperating engineering school may not be completed at the time of the George Fox University commencement.

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;
4. Pay an additional \$20 graduation fee if participating in one ceremony; otherwise, pay an additional \$50 graduation fee for the "second" degree.

Graduation Honors

Summa cum laude is awarded to students with a cumulative GPA of 3.9-4.0, magna cum laude to those with a 3.7-3.89 GPA, and cum laude to those with a 3.5-3.69 GPA. Transfer students must have completed at least 60 hours at George Fox University to be eligible for honors at graduation.

Honors in the commencement program are computed on grades through the fall semester for spring graduation, and through the previous spring semester for fall graduation. Honors on the final record and transcript are based on all grades received at George Fox University.

FINAL EXAMINATIONS

Students are required to take final examinations as specified in course syllabi. The final examination schedule covers the last four days of each semester. The schedule is printed in the class schedule book each year. Finals for evening classes take place during the final class period of the semester. The entire last week of each semester will be kept free of institutionally sanctioned extracurricular activities, with the exception of prescheduled intercollegiate athletic events. Students wishing to apply for change of final exam time must apply by the end of the 10th week of classes.

ACADEMIC HONESTY

It is assumed that students at George Fox University will endeavor to be honest and of high integrity in all matters pertaining to their college life. A lack of respect and integrity is evidenced by cheating, fabricating, plagiarizing, misuse of keys and facilities, removing books and other property not one's own, defacing and altering, and the disruption of classes.

Cheating is defined as "intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise." It is assumed that whatever is submitted by a student is the work of that student and is new work for that course. Fabrication is "intentional and unauthorized falsification or invention of any information or citation in an academic exercise or form." Plagiarism is "intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise." One who facilitates any of the above is equally responsible with the primary violator.

Penalties may include restitution, an F on an individual paper or exam, loss of campus position or employment, an F on a course, disciplinary probation, removal from extracurricular or athletic activities, and suspension.



VIII ADMISSION



*“It is the mark of an educated mind
to be able to entertain a thought
without accepting it.”*

— Aristotle

BASIS OF UNDERGRADUATE ADMISSION

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

George Fox University 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.

ENROLLMENT SERVICES

The Stevens Center on the Newberg campus is a one-stop service center for undergraduate enrollment services. There you will find the offices of admission, student financial services, orientation, Freshman Seminar, retention, disability services, Professional Studies academic advisement, and the registrar. These services are coordinated by the vice president of enrollment services.

ADMISSION

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

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 undergraduate admission office, which is open weekdays, 8 a.m. to 5 p.m., and on Saturdays, 10 a.m. to 1 p.m.

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 #6089, Newberg, OR 97132, for information and admission forms. Or visit our Web site at www.georgefox.edu.
2. Complete the Application for Admission and return it to the undergraduate admission office. Include a non-refundable 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 Student Financial Services at George Fox University. After students have been accepted for admission, they are considered for financial assistance. To permit maximum consideration for financial aid, it is recommended that the application process be completed by March 1.
7. By May 1, a tuition deposit of \$300 should be submitted by each new full-time student. This deposit reserves housing and a place in the registration sequence, so the deposit should be submitted as soon as possible following notification of acceptance. Until

May 1, it is refundable by written request. The spring semester tuition deposit deadline is December 1 and is not refundable after that date.

8. A health history form is sent to each student who has paid a tuition deposit. This must be completed personally and sent to the address on the form. Registration will not be considered complete without the questionnaire. Immunizations must be documented as indicated on the Certificate of Immunization Status form.



ADMISSION PROCEDURES AND POLICIES FOR TRANSFER STUDENTS

Procedures

1. Write to the Office of Undergraduate Admission, George Fox University, 414 N. Meridian #6089, Newberg, OR 97132, for information and admission forms.
2. Complete the Application for Admission and return it to the admission office. Include a nonrefundable application fee of \$40.
3. Request an official transcript from each college where previously registered. An applicant may also be asked to furnish a high school transcript.
4. Transfer students applying for admission during the first year out of high school should submit entrance examination scores. The Scholastic Aptitude Test (SAT) or American College Test (ACT) will be accepted.
5. Have the two recommendation forms in the application packet completed and sent to the admission office. A student must be free from academic or behavioral probation or suspension at all colleges pre-

viously attended to be eligible for admission to George Fox University. Soon after the admission file is completed, the applicant is notified of the Admission Committee's decision.

6. If applying for financial aid, a Free Application for Federal Student Aid (FAFSA) must be submitted to the appropriate financial aid service as soon after January 1 as possible. The GFU code for FAFSA is 003194. Forms may be obtained from your college financial aid office or by writing to Student Financial Services at George Fox University. After students have been accepted for admission, they are considered for financial assistance. To permit maximum consideration for financial aid, it is recommended that the application process be completed by March 1.
7. Have the financial aid office at each college previously attended complete a Financial Aid Transcript and return it to Student Financial Services at George Fox University. The Financial Aid Transcript must be completed whether or not aid was received at these institutions.
8. 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. Until May 1, it is refundable by written request. The spring semester tuition deposit deadline is December 1 and is not refundable after that date.
9. A health history form is sent to each student who has paid a tuition deposit. This must be completed personally and sent to the address on the form. Registration will not be considered complete without the questionnaire. Immunizations must be documented as indicated on the Certificate of Immunization Status form.

Policies

Students who have completed work at other educational institutions may be entitled to advanced standing by presenting official transcripts. George Fox University applies the accepted credits toward the general education requirements, electives, and the student's chosen major.

Certain criteria are involved in the evaluation:

1. Only course work with a C- or better grade will be accepted. (The GPA does not transfer. A student's GPA is computed on work at George Fox University only.)
2. A maximum of 64 semester hours may be transferred from community colleges. Each course from community college programs, except for courses completed for the Oregon Transfer Associate of Arts (OTAA) degree, is evaluated by the registrar for application to George Fox University requirements.
3. The Oregon Transfer Associate of Arts degree will satisfy all general education requirements except Bible and religion provided students complete 93 quarter hours (62 semester hours) of transferable credit grad-

ed C- or better. The OTAA degree may not necessarily meet school, department, or major requirements with regard to courses or GPA.

4. A maximum of 40 semester hours of Bible and Christian ministries may be applied on a degree in a major other than Bible and Christian ministries.
5. A maximum of 15 semester hours of approved correspondence work may be applied toward a degree program.

Any evaluation of transfer credit is to be considered tentative until the student has completed one semester of no less than 12 hours.

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

HOMESCHOOL STUDENTS

Students who attended homeschool during their high school years may be admitted to the University by following the admission procedures for freshmen.

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

Cost and Credit

- Early-admission students may take a maximum of 12 semester hours of work with a tuition charge of \$40 per credit hour.
- Credit during early admission may be applied to degree programs at George Fox University without additional charge.
- Credit earned during early admission may be transferred to other colleges or universities upon payment of regular tuition and fees in effect at the time the course was taken.
- After the completion of 60 semester hours (two years) at George Fox University, a student may transfer the hours taken during early admission without an additional payment.

Admission Following Participation in the Early Admission Program

A high school student taking courses in the Early Admission Program and wishing to be admitted to the University as a regular student must complete all application procedures for admission to the University. See page 138. Since an early admission participant has already paid an application fee, an additional fee will not be required.

ADVANCED PLACEMENT — HONORS PROGRAM

Past learning and present ability may recommend that course work begin at an advanced level. This may involve granting of credit or waiving certain prerequisites or University requirements. See Exemptions and Waivers, page 29; Course Challenge Programs, page 121; and Intensified Studies Program, page 31.

HIGH SCHOOL NONGRADUATES

An adult whose high school preparation is incomplete may be admitted on the basis of the General Educational 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.

INTERNATIONAL STUDENTS

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

International students (F-1 visa students or J-1 visa students) must show proficiency in the English language by posting a score on the paper-based Test of English as a Foreign Language (TOEFL) of at least 500 or on the computer-based TOEFL of at least 173 and a score on the Test of Written English of at least 4. Students with a score between 500 and 550 (paper-based TOEFL) or between 173 and 213 (computer-based TOEFL) will be provided a one-hour tutorial during their first semester at George Fox University to improve their ability to write in English and to develop more effective study strategies. Students not showing proficiency at the above-described levels may apply for admission to the George Fox University English Language Institute (see page 121).

READMISSION OF FORMER STUDENTS

To apply for readmission after an absence of one or more semesters, a student should request an Application for Readmission from the Office of Undergraduate Admission. If two or more years have elapsed, he or she must meet any new or revised graduation requirements and may be asked to go through regular admission procedures. By May 1, a \$300 tuition deposit must be submitted by each readmitted student. Until May 1, it is refundable. The spring semester tuition deposit deadline is December 1 and is not refundable after that date.

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

PART-TIME STUDENTS

Individuals who would like to take less than a full-time load (1–11 hours) may apply as a part-time student. Application forms and counseling regarding courses are available in the registrar's office. Applicants are required to pay the nonrefundable \$40 application fee, and tuition is based on the current per-credit-hour rate.

AUDITORS

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

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 also 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.

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.



IX FINANCES



*“Knowledge is of two kinds:
we know a subject ourselves, or we know
where we can find information upon it.”*

— Samuel Johnson

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.

STUDENT FINANCIAL SERVICES

This office awards scholarships, grants, loans, and other forms of financial assistance, and it bills students for tuition, fees, room and board, and other expenses related to attending college. Counselors assist with payment plan options and advise students regarding the various plans.

COSTS

Estimated cash outlay for typical entering undergraduate student, 2002-03 (two semesters)

	Fall	Spring	Total
<i>Tuition</i>			
(12 to 18 hours)	\$9,287.50	\$9,287.50	\$18,575
Student Body Fee	100	100	200
Health Counseling Fee	50	50	100
Total tuition and fees	\$9,437.50	\$9,437.50	\$18,875
<i>Room and Board</i>			
(Complete food service and residence hall room, double occupancy)	\$2,972.50	\$2,972.50	\$5,945
Total, resident students	\$12,410	\$12,410	\$24,820

These costs do not include travel, books, and personal expenses, which will vary widely among students. Costs of books can be expected to average about \$200 to \$300 per semester, depending on courses taken.

TUITION, FEES, AND EXPENSES (2002-03)

Tuition — Undergraduate

1 to 11.5 credit hours per semester,
per hour \$575

12 to 18 credit hours, per semester \$9,287.50
More than 18 credit hours per
semester, for each additional hour \$510
May Term, per credit hour \$288
Early admission, per credit hour \$40
Older adults (62 and older),
service fee per semester \$20
ESL students (20-hour maximum),
per semester \$6,560
Audit (per credit hour) \$287.50

Student Body Membership Fees

Students registered for 12 hours
or more per semester \$100 per semester
Students registered for 5-11 hours
per semester \$50 per semester
This fee covers the cost of student activities, class
dues, social events, the Student Union Building, and sub-
scriptions to Associated Student Community publica-
tions.

Health and Counseling Services

Health/Counseling Fee \$50 per semester
This fee provides unlimited free access to the physi-
cians, nurse, and counselors in Health and Counseling
Services.

Deposits and Admission Fees for 2002-03

Application Fee (nonrefundable,
submitted with application for admission) \$40
Tuition Deposit \$300
A tuition deposit is required of all new full-time stu-
dents and nonrefundable after May 1. This deposit
ensures housing priority and registration privileges based
on date of receipt; used as credit on first-semester bill.

Registration, Records, and Graduation Fees

Late Registration Fee \$50
(applicable if registration is not made
prior to the first day of classes
each semester)
Change of Registration Fee \$10
(per change form submitted after the
last day to change registration. There
is generally no refund of tuition after
the last day to change registration, or
add/drop period)
Examination Fee \$40
(for credit by examination, challenge,
or exemption from specific requirement
per course)
Graduation Fee \$105
Official Transcripts, per copy \$3
(student account must be paid in full)
Unofficial Transcript \$1
Rushed Official Transcript \$10
Placement File Setup Fee \$10

Placement File, per set \$7
 Additional sets with same order \$3

Departmental Fees

Chemistry/Biology Fees \$10-160
 Communication/video production courses \$10-50
 Off-campus physical education activity,
 per semester* \$10-370
 Private music lessons, per semester,
 per credit hour \$215
 (includes one half-hour lesson per
 week and use of practice room)



Other: Several classes require an extra fee to cover special facilities, equipment, transportation, etc., ranging from \$10 to \$100 per class, although some specific courses may be higher. Class fees are printed in the course schedule book.

*Students pay a fee of \$10-\$470 to cover costs of facilities, equipment, and transportation for any physical education course conducted off campus, such as swimming, bowling, golf, skiing, and canoeing. Personal rackets are required for tennis.

Late Payment Fees

Balances not paid according to payment schedule are subject to a 1-percent-per-month service charge on the unpaid balance.

Returned check fee, per check \$25
 Billing service charge (for late payment of fines) . . . \$5

Major Medical Insurance

George Fox University requires full-time students to carry medical insurance and provide proof of coverage annually. Students who do not document coverage are generally required to enroll in the University's Student Major Medical Insurance Plan. Information on this plan

can be obtained from Enrollment Services or Health and Counseling Services.

The premium is subject to change each year by the underwriter, but is about \$1,000 for 12 months, payable on the first-semester billing. Coverage is available for students only and is not available for spouse or dependents. Students who need insurance beginning spring semester may enroll by notifying Health and Counseling Services during the fall semester.

Parking Fees/Fines

Student vehicles must be registered with Security Services, and a nonrefundable parking fee must be paid.

Per semester \$30
 Annual \$50
 Parking violations (each) \$15-50

Room and Board

Room and board are furnished to resident students as indicated in the following. Residence hall rooms are double occupancy; two-room suites are occupied by four students; houses and apartments (for upperclassmen) house from two to 12 persons. There are four single-occupancy residence hall rooms (two for men, two for women). An additional charge of \$200 per semester will be charged for those rooms.

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

	<i>Semester</i>	<i>Year</i>
Residence hall*	\$1,635	\$3,270
Suites*	1,690	3,380
Apartments and houses		
with phone	\$1,635	\$3,270
without phone	1,610	3,220
Full Board	1,337.50	2,675
14 meals		2,390
7 meals		1,625

A limited amount of housing is available for married students. Information may be obtained from the Office of Student Life.

SCHEDULE OF REQUIRED DEPOSITS

New full-time students are generally required to pay a \$300 tuition deposit by May 1. This deposit will be applied against the first-semester tuition and is nonrefundable after May 1.

In the case of cancellation of preregistration, a \$100 fee is charged unless the student notifies the registrar's office by July 15; for spring semester, notification must be made prior to January 1.

Housing Deposit for Returning Students

1. All students, except graduating seniors, who will live in University-owned housing during the upcoming year will be required to pay a \$100 housing deposit to secure their housing assignment.
2. This deposit will be payable to Student Financial Services by the first week in March. (Students will be notified of the date by the Office of Student Life.)
3. The deposit is refundable if notice is made by June 15 for fall semester and prior to January 1 for spring semester. In the case that a student returns to George Fox in the fall and occupies University-owned housing, the deposit will be credited toward his or her account for the fall semester. In the case that a student does not return to George Fox and/or does not occupy University-owned housing, the deposit will be forfeited.

At the time the housing deposit is paid, students must be current on their payment arrangements to be eligible to participate in housing sign-ups for the following year. Please see Student Financial Services if you have questions about your account.

FINANCIAL ARRANGEMENTS

All charges made by the University are due two weeks prior to the beginning of each semester or may be made on an installment basis on either an annual or semester basis. (Single semester plans are intended for students who will be enrolled for either fall or spring, but not

both). Students receiving scholarships, grants, or loans must complete all necessary arrangements well in advance of the semester start. Students who are securing a loan from financial institutions or agencies (e.g., a federally insured bank loan) that may still be pending at the time of confirmation of registration must have a letter of commitment from the lender acceptable to the University. Service charges will be made on unpaid accounts even though financial aid and loans are pending, so the application process should be started early.

Earnings from student employment jobs are paid directly to the student. These jobs are not guaranteed, therefore the earnings cannot be credited to a student account.

Payment for May Term and summer tuition is due in full when billed.



Students may be asked to leave at any time during a semester if appropriate arrangements have not been made at the beginning of the semester or if the student becomes delinquent on installment payments.

Restrictions

The University will withhold transcript of records and diploma until all University bills have been paid. Students will not be permitted to attend for a new semester, including May Term, Juniors Abroad, and summer field experience, until all bills are paid for the previous session.

Institutional Charges and Financial Aid

Removal of Institutional Charges

Students who choose to reduce their course load, and who do not completely withdraw from the University, will generally not receive a removal of tuition, course fees, and other associated fees unless the changes takes

place prior to the last day to change registration, also known as the end of the add/drop period, which is published in the University's academic calendar and class schedule book.

Adjustments of room and board will generally be calculated as follows:

- Students withdrawing from housing during the first week in the enrollment period will receive a prorated adjustment. After the first week there is no adjustment.
- Students withdrawing from the meal plan during the first two weeks in the enrollment period will receive a prorated adjustment. After the second week there is no adjustment.

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 add/drop fees or interest.

When a student withdraws completely from the University refunds of tuition, excluding May Term, will generally be calculated as follows:

- A student whose withdraw date is day one of the enrollment period generally receives a 90 percent adjustment.
- A student whose withdraw date is after day one but within week one generally receives a 75 percent adjustment.
- A student whose withdraw date is within week two generally receives a 50 percent adjustment.
- A student whose withdraw date is within week three generally receives a 25 percent adjustment.
- A student whose withdraw date is within week four, or later, generally receives no adjustment.

Adjustments of May Term tuition will be calculated as follows:

- A student who withdraws prior to day one of the enrollment period generally receives a full adjustment.
- A student who withdraws on day one generally receives a 50 percent adjustment, regardless of attendance.
- A student who withdraws on day two or later generally will not receive any adjustment.

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.

Removal of Institutional Aid

George Fox University allows students to retain a percentage of the disbursed institutional financial aid equal to the percentage that they have been charged, but not to exceed standard charges minus \$100. Standard charges are considered to be tuition, fees, and institutional room and board. The order that institutional financial aid is removed is at the discretion of Student Financial Services.

Title IV Funds

The Return of the Title IV Federal Funds

These policies generally apply to students who withdraw entirely from George Fox University or take an approved leave of absence, or to students who are asked to withdraw for academic, disciplinary, or financial reasons.

Note: Both The Return of the Title IV and Institutional Financial Aid Funds Policy and the George Fox University Removal of Institutional Charges Policy must be considered when determining the financial impact of withdrawing completely from the University.

Explanation of Terms

The term "Title IV Funds" refers to federal financial aid programs authorized under the Higher Education Act of 1965 (as amended). At George Fox University, these programs include unsubsidized Stafford Loans, subsidized Stafford Loans, Perkins Loans, PLUS Loans, Pell Grants, and SEOG. Federal Work-Study wages are not included.

The term "Institutional Financial Aid Funds" refers to George Fox University financial aid dollars, including grants and scholarships.

The "Return" of funds, either Title IV or institutional, refers to the amounts removed from the student account.

The term "Refund" refers to the reversal of amounts charged on the student account.

The "withdraw date" is the date established by the Office of the Registrar in accordance with the Official Withdraw Process. (See Official Withdraw Process, page 162.)

The "period" used in calculating the return of Title IV and institutional funds is either the payment period or the enrollment period, depending on the academic program involved. Both periods are based on calendar days. They include weekends but exclude scheduled breaks of five days or more. The period used to calculate the removal of institutional charges is always the enrollment period.

The "enrollment period" is defined as the period in which a student is enrolled.

The “payment period” is defined as the loan payment period for which the student is eligible. The payment period is used only when calculating the return of funds for academic programs that have two loan disbursement periods within one academic period, such as the Department of Professional Studies MOL and MBIS programs.

A “Postwithdrawal Disbursement” is a financial aid or loan disbursement that the student was eligible for prior to withdrawal, but had not yet received.

Return of Title IV 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 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 Student Financial Services.

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

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, Student Financial Services 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 Student Financial Services within two weeks of receiving notice of the disbursement.

When the Postwithdrawal Disbursement results in excess funds being available to the student, or when pending disbursements are needed to cover minor noninstitutional charges:

- Authorization from the borrower is required.
- If the borrower has not signed an authorization, the institution will request the needed authorization either electronically or in writing.
- The borrower will be advised that no late disbursement will be made for these purposes unless authorization is received within 14 days of the date the institution sent the notification.

These policies are in compliance with the Higher Education Reauthorization Act. For refund examples, please stop by Student Financial Services 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 the 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

Some 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, and Loans

Federal and State Grant Programs

The Federal Pell Grant and the Oregon State Opportunity 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 a criterion for determining the level of the honors scholarships.

The Presidential Scholarship of up to \$10,000 is a renewable scholarship awarded to freshmen who are either National Merit semifinalists or students with a predicted grade point average (PGPA) of 3.8 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 3.4 and an annual interview with the Scholarship Committee.

The Benson Scholarship of up to \$8,000 is a 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 3.65 or above. Continuation in the program requires a cumulative GPA of 3.4.

The Duke Scholarship is awarded to academically talented students who also have outstanding leadership capabilities. The scholarship of up to \$7,000 is given to students with a predicted GPA of at least 3.5 based upon high school GPA and SAT or ACT scores. Continuation requires a cumulative 3.2 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. Continuation requires a cumulative 3.2 GPA.

The Ed and Linda Stevens Scholarship is for incoming students who have a predicted GPA of 3.25 or above. This scholarship of up to \$5,000 becomes the Elizabeth Carey Minas Scholarship in the renewed years. Continuation requires a 3.2 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 of up to \$2,500 requires a 3.0 cumulative GPA for renewal.

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 up to \$2,000 annually. Continuation of the Miller Award generally requires a cumulative GPA of 3.0. The George Fox University Science Scholarship is a \$3,500 maximum renewable scholarship for science majors who have a predicted GPA of 3.5 out of high school. Candidates are selected by the science department. The application process includes SAT scores, seven-semester transcript, and a letter of recommendation from a high school science teacher. Continuation requires a 3.4 GPA.

Drama, Music, and Forensics Scholarships

A limited number of awards are made each year to talented students who show promise of achievement in drama, music, and forensics. To be eligible, applicants must have satisfactory academic records, unusual proficiency in one or more of the above fields and demonstrate financial need. Auditions or personal interviews usually are required of applicants.

Multicultural Awards

Multicultural awards are offered to qualified students who meet entrance academic standards and maintain necessary cumulative GPA requirements. The Multicultural Student Achievement Award of \$2,500 is available to students with an entrance GPA of 3.4. Retention of this award requires a cumulative George Fox GPA of 3.4. The Multicultural Student Award of \$1,000 is available to students with an entrance GPA of 3.0-3.39. Retention of this award requires a cumulative George Fox GPA of 3.2.

Special Grants

A limited number of grants are offered to encourage and enable special groups of students to attend George Fox University. Grants of \$1,500 each are awarded to



dependents of active ministers and missionaries. Any entering freshman student from California with a high school GPA of at least 3.0 may receive a grant of \$1,400. Any student from a Friends or Evangelical Church of North America church with a high school GPA of 3.0 or a combined SAT score above 1000 may receive a grant of \$1,400. These grants are based upon financial need. Stipends may be reduced somewhat for students who are eligible for more than one of these grants or eliminated if “need” is not present. Continuation of the California Student Grant or the Friends/ECNA Student Grant requires a cumulative college GPA of at least 3.0.

Church/University Fellowship Awards

The University has established Church/University Fellowship Awards to assist churches in encouraging their young people to attend George Fox University. The church may make a gift of any amount to the University for credit to a specific student’s account. If application deadlines are met, the University will then match up to \$500 (\$600 for Friends students) of the gift for any full-time students, and up to \$600 for juniors and seniors who are preparing for Christian service. Gifts may be made for any number of students from a church. In addition, a George Fox University/Northwest Yearly Meeting partnership may provide additional assistance for students from those churches in the Yearly Meeting that participate in the Church/University Match Program. The gifts must be an official act of the church rather than from individual church members. The deadline to apply for University matching funds is August 1 for fall semester. Applications will be supplied upon request.

Family Discounts

Tuition discounts equal to approximately 5 percent of tuition will be granted to second and additional family members when more than one member of the same family is enrolled in the traditional undergraduate program 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:

Student Financial Services

The J. Caroline Ankeny Memorial Scholarships totaling \$3,100 are awarded annually to international students from India, Africa, Bolivia, or Peru.

The Austin Scholarship is intended for academically superior students from Newberg. The \$1,800 award is renewable if the student is active in college programs and leadership and maintains a 3.0 GPA.

The Richard H. Beebe Memorial Scholarship provides \$950 for a graduate of Crow High School (Eugene, Oregon). Students from Eugene Friends Church also may be considered. Recipients must have a 2.5 GPA.

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.

The Esther M. Klages Scholarships provide funds to deserving students, with preference to international students who intend to return to their native countries to serve in Christian ministries. Renewable for one year.

The Mildred Lancaster/Denair Friends Church Scholarship is given annually to assist a student who is a member or regular attendee of Denair Friends Church, or any northern California Friends church. The annual stipend is \$1,550.

The McGrath Family Scholarship of \$3,600 is awarded annually to an incoming Newberg High School graduate.

The McPhee Memorial Grant of \$1,000 is awarded annually to a dependent of missionaries actively serving the church in a country other than the United States.

The Mock Family Scholarship of \$1,150 is awarded annually to a student from Banks School District #13.

The Fred C. Neumann Memorial Scholarship of \$1,100 is awarded annually to a Quaker student who lives in Colorado. First preference will be given to a student from Denver.

The Joanne Brougher Summers Memorial Scholarship of \$900 is awarded annually to an international student or Alaskan Eskimo who has ability to succeed in college.

Department of Biology and Chemistry

The John and Esther Brougher Memorial Premedical Scholarship of \$700 is provided to a student majoring in a premedical professional program.

The M. Lowell and Margaret W. Edwards Health Science Scholarship of \$500 is awarded annually to a student majoring in science. Preference will be given to students with a minimum GPA of 3.4 who are preparing for health-related professions.

The Haisch Family Natural Science Scholarship of \$700 is awarded annually to seniors who are members of the Friends Church and who are training for a profession in natural science. Minimum GPA of 2.5 is required.

The Alvin Roberts Memorial Scholarship of \$1,100 is awarded to a Friends student with a minimum 3.0 GPA. Preference is given to premedical or science majors.

The Science Scholar Award will provide an annual award of \$1,150 to students majoring in the sciences, preferably in premedicine. The recipient must be a junior or senior with at least a 3.0 GPA.

The Laurence and Rose Mae Skene Science Scholarship is awarded to students majoring in biology or chemistry. The recipients must be sophomore level or above. Award amounts are between \$1,000 and \$3,500.

The Mary C. Sutton Memorial Scholarship of \$200 is awarded annually to a financially needy Quaker student majoring in Christian education or biology. A minimum GPA of 3.0 is required.

The Elver Voth 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/Ira and Frieda Compton Memorial Scholarship of \$1,300 is awarded annually to a sophomore, junior, or senior student majoring in business/economics.

The Farmer Family Business/Marketing Scholarship of \$900 is offered to a business/marketing major.

The Roy and Fern Gage Scholarship of \$700 is awarded annually by the Department of Business and Economics 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 \$1,700.

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/Beatty Business and Economics Scholarship of \$2,400 is awarded annually to students majoring in business and economics.

The L. B. and Thelma Martin Business/Economics Scholarship of \$1,400 is awarded annually to a junior or senior majoring in business/economics. 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.

The Delbert E. Replogle Telecommunications Scholarship of \$750 is awarded annually to an upper-division student majoring in communications/video production.

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 \$800.

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 GPA. 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 GPA of 3.25 at George Fox University.

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.

The Emma Prillaman Vocal Music Scholarship is an \$1,200 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 \$1,200 is awarded annually to a member of the Friends Church (preferably of the East Whittier Friends Meeting) pursuing a degree in music.

The Arlene Zeller Memorial Scholarship of \$200 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 \$2,200 is awarded annually to a female student who is at least a sophomore and has a minimum GPA of 3.0.

The Health and Human Performance Scholarship is awarded annually to an Oregon resident majoring in health and human performance with a minimum 2.0 GPA. The award is \$3,000.

The Debbie Larson Memorial Grant of \$200 is awarded annually to a female student.

Department of History

The Laura Smith Haviland Social Studies Teaching Scholarship of \$1,550 is awarded annually to a student majoring in social studies teaching.

The Herbert Hoover Scholarship in History of \$700 is awarded annually to a student majoring in history.

The Hazel Steinfeldt Peace Studies Scholarship is awarded to students who have demonstrated a commitment to a vocation of peacemaking or benefitted from the peacemaking education opportunities available at George Fox. Students must have a 3.0 GPA. The total amount of funds awarded is \$11,000.

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.

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.

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.

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. A minimum GPA of 2.5 is required.

The Russel and Olivia Gainer Christian Ministry Scholarship of \$1,050 is awarded to a Christian ministries major.

The Haisch Family Christian Ministry Scholarship of \$700 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.

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 (2003-04) 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 \$600 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.

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 \$400 is awarded annually to a son or daughter of an active missionary family. 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.

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.

The Jack L. Willcuts Memorial Scholarship offers \$1,200 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.

Department of Sociology/Social Work

The Chehalem Center Community Scholarship, with a stipend of \$2,600, annually assists a social work/sociology student from Newberg or the Chehalem Valley.

The David O. Moberg Scholarship of \$1,550 is awarded annually to a student majoring in psychology or sociology.

The Edward L. and Ella M. Morse Memorial Scholarship of \$200 is awarded to a deserving needy student.

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 students with financial need.

The Valerie Tursa Memorial Scholarship of \$1,100 is awarded to a junior or senior majoring in social work and/or sociology who maintains a 3.0 GPA.

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.

Department of Teacher Education

The Adrian Family Scholarship of \$1,000 is to help prepare Christian teachers to teach in the public school system. To be awarded to a junior or senior majoring in elementary education. Oregon residents preferred.

The Viola D. Barkman Memorial Educational Scholarship is a two-year \$2,700 scholarship for elementary education majors. The recipients must be residents of Oregon and have junior standing. Applications for the scholarship will be made in the spring semester of the sophomore year to the director of teacher education, with the final approval granted by the Scholarship Committee.

The Education Scholarship of \$1,450 is awarded to students pursuing education as a profession. Junior class status preferred, 3.0 GPA mandatory.

The Mona Hadley Teaching Scholarship of \$300 is offered to an education major with a GPA of at least 3.0. Need is considered. May be renewable.

The Haisch Family Education Major Scholarship is awarded annually to a student majoring in education. The award is \$600.

The Lynn Hampton Memorial Education Scholarship of \$300 is awarded annually to aid a senior student majoring in elementary education with a minimum GPA of 3.25.

The Clarence and Sue Johnson Scholarship is awarded to students with financial need. The annual award fund available is \$2,800.

The Alida Macy Memorial Education Scholarship of \$1,550 is awarded annually to a student of sophomore standing or above majoring in elementary education with a minimum GPA of 3.0.

The Virginia Millage Memorial Scholarship provides \$1,400 to financially assist a junior or senior elementary education major.

The Carl and Winifred Woodward Sandoz Memorial Scholarship of \$700 assists education majors who have achieved junior or senior standing with a GPA of 2.5 or higher.

The Arthur and Gwen Winters Scholarship of \$900 is awarded annually to a Quaker student from Northwest Yearly Meeting of Friends.

The Ezra and Amanda Woodward Scholarship provides \$800 for an elementary education major with special needs.

The Glenn Zurcher Scholarship Fund provides tuition assistance to financially disadvantaged students with a high degree of scholastic aptitude and achievement. The total amount awarded is \$17,000.



Department of Writing/Literature

The Ed Kidd Memorial Scholarship of \$1,100 is awarded to a student, sophomore or above, with an interest in writing or ministry.

The Language Arts Teaching Scholarship of \$1,550 is awarded annually to a student majoring in language arts teaching.

The Henry A. Nagl and Eddie Daniel Memorial Scholarship Fund of \$1,200 is awarded annually to help deserving students meet college costs.

The William Penn Writing Scholarship of \$600 is awarded annually to an upper-division student majoring in writing/literature or communication arts. Submit a portfolio of published/unpublished writing to the department.

Miscellaneous

The Alice Myers Kelleway Scholarship of \$800 is awarded to a student studying foreign languages.

The J. Vernon Rice and Maude R. Rice Scholarships of \$100 to \$1,200 are awarded to a limited number of students with financial need. Primary consideration is given to Idaho students who attend Idaho Friends churches participating in the Church/University Fellowship Program.

Designated Scholarships

Friends of the University give generously to provide additional scholarships. The following scholarships and grants are funded in this manner. *Except as noted, these scholarships are awarded to returning students only.* The amounts of the awards may vary according to the annual gifts of the donors. Applications are accepted by the department under which the award is listed, and generally financial need is considered.

Student Financial Services

The Clint Foundation Scholarship is to assist students who work to help pay a portion of their educational costs. Students will be required to participate in a service component during the year and must earn the equivalent of the scholarship amount in the year it is awarded. The annual amount is \$2,000.

The Abigail and Leo Crisman Scholarship of \$1,000 is awarded annually to a financially needy student.

The Faith Award is a \$1,000 scholarship awarded annually to a student with exceptionally high need who would otherwise not be able to attend George Fox. The recipient must maintain a GPA of 2.75-3.0.

The Minthorne Family Grant of \$500 is awarded to a freshman son or daughter of a Friends pastor or missionary.

The Muscutt Married Student Scholarship of \$1,000 is annually awarded to a sophomore or above married student with a 3.0 or above GPA.

The PGE Merit Award of \$2,500, renewable annually, is awarded to an Oregon high school senior with high academic achievements and community involvement. Applications are available through high schools. Application must be made by March 30.

The Frank D. Roberts Scholarship of \$300 is awarded annually to the valedictorian of the senior class of Greenleaf Academy, located in Greenleaf, Idaho. If there is no valedictorian, priority goes to a Greenleaf student and then to a qualified student who is active in the Friends Church.

The West Linn High School Scholarship of \$500, funded by Dea and Lois Cox, is awarded to a graduating senior from West Linn High School to aid in attending George Fox University.

Department of Biology and Chemistry

The Jim and Carol Kyle Science Scholarship is offered to students interested in the study of physical sciences. Preference is given to Oregon residents. The annual award fund available is \$7,500.

Department of Family and Consumer Sciences

The Orpha Puckett Larrance Memorial Scholarship of \$500 is awarded annually to a student of sophomore, junior, or senior standing majoring in family and consumer sciences or elementary education. A GPA of 3.0 or higher is required.

Department of Fine Arts

The Art Achievement Award is a \$1,000 scholarship to promote and encourage upper-division students who show promise in visual arts. Must be an art major with a major GPA of 3.5.

The Culver High School Scholarship is given annually by the Culver High School scholarship committee to assist a Culver High School graduating senior.

The Kristine Dicus Memorial Scholarship of \$500 is awarded to an outstanding freshman student who plans to major in music. Recommendation by the admission office may be considered.

The Roberta Mitchell Jansen Music Scholarship is awarded to a student for four years. The \$500 award is given to a student specializing in music conducting, with a minimum 3.0 GPA. Preference will be given first to students from Polk County, then to Oregon high school graduates.

The Kim Wentworth Art Scholarship was founded to support an upper-division student majoring in art. The annual scholarship is \$1,000.

Department of Health and Human Performance

The Physical Education Grant of \$600 is awarded annually to an upper-division student planning to teach physical education or serve in the recreation field. A 3.0 minimum GPA is required.

Department of History and Political Science

The Kerry E. and Vickie D. Irish Scholarship in History is awarded annually to a history major with a minimum 3.5 GPA. The annual award is \$750.

Department of Mathematics, Computer Science, and Engineering

The Roberta Mitchell Jansen Scholarship is a \$500 award for four years to assist a student majoring in mathematics education. The student must maintain a minimum GPA of 3.0. Preference will go to a high school graduate from Polk County, with second preference going to a high school graduate from elsewhere in Oregon.

The Math Faculty Scholarship is a \$1,200 scholarship awarded annually to a student majoring in math or math teaching. The student must be sophomore level or above. The award may be renewed.

Department of Religious Studies

The Crecelius Family Christian Ministry Scholarship of \$500 is awarded annually to a student majoring in Christian ministry and planning to prepare for full-time Christian service.

The Hanson Quaker Leadership Scholarship was established to assist a junior or senior Quaker student who sees the Friends Church as an avenue for future ministry. The stipend of \$1,000 is not limited to future pastors. May be renewed for a second year.

Department of Sociology/Social Work

The Allen Scholarship and Social Science Award for \$1,000 is given to a sociology/social work major with a 3.0 minimum GPA who is a junior or senior and considering the fields of aging, the homeless, or lower income populations.

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. Graduates of Christian high schools preferred. The award may be renewed. Freshmen apply through the admission office, and returning students apply through the Department of Sociology/Social Work.

Department of Teacher Education

The Roberta Mitchell Jansen Scholarship is a \$500 award for four years to assist a student majoring in math education. The student must have a minimum 3.0

GPA. Preference will go to a high school graduate from Polk County, with second preference going to a high school graduate from Oregon.

Miscellaneous

The Alumni Scholarship/Alumni Awards are given annually to 11 students who are direct descendants (parents or grandparents) of George Fox alumni who attended George Fox University for at least one year, including the MHR/MOL/MBIS programs.

The Madras High School Scholarship is given annually by the Madras High School scholarship committee to assist a Madras High School graduating senior.

It is the hope of the University that recipients of these funds will someday desire to add to the scholarship endowment fund and designate gifts for this purpose.

Loans

The Federal Perkins Loan (previously the National Direct Student Loan) is awarded by Student Financial Services based on demonstrated need and availability of funds. Because of the limited funds, this is usually awarded to those students who have exceptional need.

COMPLIANCE WITH LAWS

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 Student Financial Services: Title IV (Higher Education Act of 1965 as amended), student consumer information, the Pell Program, Supplementary Educational Opportunity Grants, the Perkins Loan/Direct Loan Program, the Stafford Loan Program, the Parents Loan for Undergraduate Students Program, and the Supplemental Loans for Students Program

Registrar: Rehabilitation Act of 1973, veterans' benefits, Immigration and Naturalization Act, and the Family Educational Rights and Privacy Act



X

COMPLIANCE WITH FEDERAL LAWS AND REGULATIONS



*“Blessed is the man who
finds wisdom, the man who
gains understanding.”*

— Proverbs 3:13

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 with-

in the first two weeks of fall semester. Otherwise, all photographs and information listed above are considered as "directory information" according to federal law. Nondirectory information, notably grade records, are released to third parties only on written request of the student, or otherwise required by law (e.g., subpoena).

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

The registrar's office at George Fox University has been designated by the institution to coordinate the inspection and review of procedures for student education records, which include admission, personal and academic files, and academic, cooperative education, disciplinary records, and placement records. Students wishing to review their education records must give a written request to the registrar listing the item or items of interest. Only records covered in the act are made available within 45 days of the request. Education records do not include student health records, employment records, alumni records, or records of instructional, administrative, and educational personnel that are the sole possession of the maker and are not accessible or revealed to any individual except a temporary substitute. Health records, however, may be reviewed by physicians of the student's choosing.

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

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

DRUG-FREE ENVIRONMENT

George Fox University is concerned about the intellectual, physical, psychological, and spiritual well being of all its students and employees. The community recognizes the danger to one's physical and psychological well being presented by the use of certain products. Therefore, members of the community are prohibited

from using tobacco in any form, alcoholic beverages, and illicit or nonprescribed drugs and substances (including marijuana or narcotics). Under no circumstances are the above to be used, possessed, or distributed on or away from campus. Community members are also expected not to abuse the use of legal substances. For information concerning disciplinary actions, please refer to the student and employee handbooks. Students and employees are provided annually a resource guide concerning drug and alcohol issues.

DISABLED STUDENTS

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

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

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

DISCLOSURE OF USES FOR SOCIAL SECURITY NUMBERS

Providing one's Social Security number is voluntary. If a student provides it, the University may use his or her Social Security number for keeping records, doing research, and reporting. The University does not use the number to make any decision directly affecting the student or any other person. A student's Social Security number is not given to the general public. Students who choose not to provide their Social Security numbers are not denied any rights as a student. A statement in the class schedule describes how Social Security numbers are used. Providing one's Social Security number means that the student consents to use of the number in the manner described.

ANTI-HARASSMENT POLICY

George Fox University students work in an environment where the dignity of each individual is respected. Demeaning gestures, threats of violence, or physical attacks directed toward another person are not tolerated. This includes hazing or other initiations or any actions that may be hazardous, dehumanizing, harassing, or humiliating to community members. Also included is the use of telephones, United States or campus mail, or e-mail for the purpose of issuing obscene, harassing, or threatening messages. Also, vandalism of property is unacceptable.

Harassment due to race, color, sex, marital status, religion, creed, age, national origin, citizenship status, workers' compensation status, physical or mental disability, veteran's status, or any other status protected under applicable local, state, or federal law is prohibited.

A person may commit criminal harassment if he or she intentionally harasses or annoys another person by:

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

Sexual Harassment

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

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

Sexual harassment may take many other forms. The conduct prohibited may be verbal, visual, or physical in nature. It includes unwelcome sexual advances, requests for sexual favors, physical touching, or the granting or withholding of benefits (e.g., pay, promotion, time off, and grades) in response to sexual contact. More subtle forms of sexual harassment may include, but are not limited to, innuendoes, jokes, offensive or sexually oriented posters, cartoons, caricatures, or comments when these things contribute to an intimidating, hostile, or offensive environment.

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 Student Employment 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 WITHDRAWAL 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://www.georgefox.edu/Registrar/index.html>. An official withdraw begins when a student submits a completed withdraw form to the registrar's office.

Procedures

The registrar's office is designated by the institution as the contact for all withdraws: part-time, during-semester, or complete withdraws.

The student must pick up a withdraw form at the registrar's office (also available on the Internet), obtain signatures or approval from Student Financial Services, and return the form to the registrar's office. (This process may be completed via the phone working with the registrar's office.)

Generally the student will be awarded W grades for all courses affected by an official withdraw.

The student is then considered to be officially withdrawn.

General Information

The student is responsible to return all institutional property to the appropriate office or department, such as library books, keys, athletic equipment, lab equipment, etc. Students are financially responsible for all items not returned.

The student will be notified by Student Financial Services of financial obligations when the withdrawal calculation is completed. For a copy of or examples of the refund policy, please contact Student Financial Services.

The official withdraw date is established by the registrar's office. Generally, the withdraw date is the date the withdraw form is completed and submitted to the registrar's office or the date established on the withdraw form.

For during-semester withdraws, students generally lose enrollment privileges five working days after the official withdraw date established by the registrar's office. These services may include, but are not limited to, e-mail, library, student activities, food service, on-campus housing, health, and other related services associated with enrolled student status. The University reserves the right to remove privileges immediately upon official withdraw notification.

Rescind Notification of Intent to Withdraw

If a student wishes to cancel his or her official withdraw from the institution, that student must submit to the registrar's office, in writing, his or her intent to complete the current term of enrollment. This rescinds the student's notification of intent to withdraw.

Unofficial Withdraw

If a student fails to follow the official withdraw process, he or she will be considered to have unofficially withdrawn. If the student unofficially withdraws, the institution will generally use the 50 percent point of term or a documented earlier or later date of academic activity or attendance as the official withdraw date. Generally, the student will be awarded F grades for all courses affected by an unofficial withdraw.

Appeal

An appeal of the established withdraw date is to be submitted in writing to the registrar's office within 60 days from the established withdraw date.

FACULTY

This register includes those teaching half time or more under regular faculty contracts, as well as certain administrative officers with faculty designation. Listed are those contracted at the time of printing.

Wayne V. Adams, Professor of Psychology, Director of the Graduate School of Clinical Psychology. B.A., Houghton College; M.A., Ph.D., Syracuse University. George Fox University 1999–

Paul N. Anderson, Professor of Biblical and Quaker Studies, Chairperson of the Department of Religious Studies. B.A., Malone College; B.A., Trinity Lutheran Seminary; M.Div., Earlham School of Religion; Ph.D., Glasgow University. George Fox University 1989-98, 1999–

Raymond D. S. Anderson, Assistant Professor of Media Communications. B.S., University of West Indies; M.B.A., Nova Southeastern University. George Fox University 2001–

Mark E. Ankeny, Associate Professor of Education, Director of the Doctor of Education Program. B.A., George Fox University; M.S., Portland State University; Ph.D., University of Oregon. George Fox University 1991–

Rebecca Thomas Ankeny, Professor of English, Dean of Faculty Development. B.A., George Fox University; M.A., Ph.D., University of Oregon. George Fox University 1988–

Edwin F. Armstrong, Assistant Professor of Computer Science. B.S., University of Redlands; M.S., West Coast University; Ph.D., University of Wales. George Fox University 2002–

Patrick L. Bailey, Assistant Professor of Health and Human Performance. B.S., University of Idaho; M.Ed., University of Oregon. George Fox University 1995–

Robin E. Baker, Provost, Professor of History. B.A., Grand Canyon University; M.A., Hardin-Simmons University; Ph.D., Texas A&M University. George Fox University 1999–

Tara L. Baker, Assistant Professor of Biology. B.S., Ph.D., Iowa State University. George Fox University 1998–

Grace A. Balwit, Associate Professor of Education. B.S., Eastern Nazarene College; M.A., Ed.Spec., Northern Michigan University; Ph.D., University of Wisconsin. George Fox University 1994–

Dirk E. Barram, Professor of Business. B.A., Gordon College; M.Ed., Kent State University; Ph.D., Michigan State University. George Fox University 1986–

Stephen R. Bearden, Assistant Professor of Marriage and Family Therapy. B.A., Olivet Nazarene University; M.Div., M.A., Fuller Theological Seminary; Ph.D., Oregon State University. George Fox University 1996–

Deborah L. Berhó, Assistant Professor of Spanish. B.A., Northwest Nazarene College; M.A., Ph.D., University of New Mexico. George Fox University 1997–

Virginia D. Birky, Assistant Professor of Education. B.S., Goshen College; M.S., Ohio State University; Ph.D., Oregon State University. George Fox University 2000–



Teresa L. Boehr, Associate Professor of Family and Consumer Sciences, Chairperson of the Department of Family and Consumer Sciences. B.S., Oregon State University; M.A., Linfield College. George Fox University 1985–

John D. Bowman, Professor of Music. B.M., Houghton College; D.M.A., University of Cincinnati. George Fox University 1980–

Bryan R. Boyd, Assistant Professor of Theatre. B.A., George Fox University; M.F.A., University of Portland. George Fox University 2002–

Irv A. Brendlinger, Professor of Religion. B.A., Asbury College; M.Div., Asbury Theological Seminary; M.Ed., University of Oklahoma; Ph.D., University of Edinburgh. George Fox University 1993–

Marlene J. Brown, Associate Professor of Business. B.A., Moorhead State University; M.B.A., University of Montana. George Fox University 2001–

Daniel L. Brunner, Associate Professor of Church History and Pastoral Studies, Director of the Master of Divinity Program. B.A., Northwest Christian College; M.Div., Fuller Theological Seminary; Ph.D., University of Oxford. George Fox University 1996–

Robert E. Buckler, Professor of Psychology. A.B., University of California, Los Angeles; M.P.H., Johns Hopkins University; M.D., Georgetown University School of Medicine. George Fox University 1990–

Rodger K. Bufford, Professor of Psychology, Director of Integration for the Graduate School of Clinical Psychology. B.A., The King's College; M.A., Ph.D., University of Illinois. George Fox University 1990–

Gary R. Buhler, Artist in Residence. B.S., Western Oregon State College; M.F.A., University of Arizona. George Fox University 1989-90, 2000–

William C. Buhrow, Jr., Director of Health and Counseling Services, Assistant Professor of Psychology. A.A., Baptist Bible College; B.A., Cedarville College; M.A., Dallas Theological Seminary; M.A., Psy.D., George Fox University. George Fox University 1994–

Roy 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. Byrtek, 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, Director of Clinical Training. 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.A., Pratt Institute; Ph.D., The Ohio State University. George Fox University 1990–

Kevin M. Carr, Assistant Professor of Education. B.S., University of Oregon; M.S., Ph.D., University of Idaho. George Fox University 1998–

Paul H. Chamberlain, Professor of Chemistry, Director of Overseas Studies. B.A., Point Loma College; Ph.D., University of Nevada, Reno. George Fox University 1977–

R. Carlisle Chambers, Associate Professor of Chemistry. B.S., Milligan College; Ph.D., Emory University. George Fox University 1994–

Charles K. Church, Portland Center Librarian. B.S., Southern Oregon State College; M.L.S., University of Oregon. George Fox University 1993–

David M. Church, Assistant Professor of Music. B.M., University of Colorado; M.S., University of Southern California; M.A., Pacific Lutheran University. George Fox University 2000–

Charles J. Conniry Jr., Associate Professor of Pastoral Ministries, Director of the Doctor of Ministry Program. B.A., American Christian School of Religion; M.Div., Bethel Theological Seminary West; Ph.D., Fuller Theological Seminary. George Fox University 1998–

Wesley A. Cook, Associate Professor of Health and Human Performance. B.A., University of Northern Colorado; M.A.T., Lewis and Clark College. George Fox University 1987–

Caitlin C. Corning, Associate Professor of History, Chairperson of the Department of History and Political Science. B.A., Seattle Pacific University; M.A., Ph.D., University of Leeds. George Fox University 1996–

Victoria L. Defferding, Assistant Professor of Spanish. B.A., University of Oregon; M.A., Portland State University. George Fox University 1989–

Stephen Delamarter, Associate Professor of Old Testament. A.A., Wenatchee Valley College; B.A., Seattle Pacific University; M.A.R., M.Div., Western Evangelical Seminary; M.A., Ph.D., Claremont Graduate School. George Fox University 1996–

Mark W. Doyle, Instructor of Biology. B.S., Eastern Oregon State University. George Fox University 2000–

Jeffrey M. Duerr, Associate Professor of Biology. B.A., B.S., Whitworth College; M.S., Portland State University; Ph.D., University of Hawaii. George Fox University 1999–

Eugene R. Dykema, Professor of Business and Economics. B.A., University of Illinois; M.B.A., University of Chicago; Ph.D., University of Notre Dame. George Fox University 1991–

Patsy A. Engle, Assistant Professor in Teacher Education. B.A., Indiana Wesleyan University; M.A., Ball State University. George Fox University 1993–

Richard A. Engnell, Professor of Communication Arts. B.A., Biola University; M.A., Ph.D., University of California, Los Angeles. George Fox University 1978–

Michael A. Everest, Assistant Professor of Chemistry. B.S., Wheaton College; Ph.D., Stanford University, George Fox University 2001–

Gary K. Fawver, Professor of Outdoor Ministries. B.A., Wheaton College; M.Div., Gordon-Conwell Theological Seminary; D.Min., Western Seminary. George Fox University 1974–

Lon Fendall, Dean of Undergraduate Studies, Associate Professor of History. B.A., George Fox University; M.A. and Ph.D., University of Oregon. George Fox University 2000–

James D. Foster, Dean of Graduate and Professional Studies, Professor of Psychology. B.S., Seattle Pacific University; M.A., Ph.D., The Ohio State University. George Fox University 1980–

Kathleen A. Gathercoal, Professor of Psychology, Director of Research for the Graduate School of Clinical Psychology. A.B., Franklin & Marshall College; M.A., Ph.D., Case Western Reserve University. George Fox University 1993–

Jules Glanzer, Dean of George Fox Evangelical Seminary, Associate Professor of Pastoral Leadership. B.A., Tabor College; M.Div., Mennonite Brethren Biblical Seminary; D.Min., Fuller Theological Seminary. George Fox University 2001–

Steven C. Grant, Associate Professor of Health and Human Performance. B.A., Biola University; M.Ed., Linfield College. George Fox University 1982–

Dennis B. Hagen, Director of East Asia Exchange Programs. B.A., Whitworth College; M.Mus.Ed., Indiana University; B.D., Western Evangelical Seminary; Ph.D., Indiana University. George Fox University 1964–

Mark D. Hall, Associate Professor of Political Science. B.A., Wheaton College; M.A., University of Virginia; Ph.D., University of Virginia. George Fox University 2001–

Thomas E. Hancock, Associate Professor of Education. B.A., Whitworth College; M.Ed., Seattle Pacific University; Ph.D., Arizona State University. George Fox University 2000–

Robert F. Harder, Professor of Mechanical Engineering, Director of Engineering Program. B.S.M.E., M.S.M.E., Michigan Technological University; Ph.D., Oregon Graduate Institute of Science and Technology. George Fox University 1988–

Mark O. Hatfield, Herbert Hoover Distinguished Professor. B.A., Willamette University; M.A., Stanford University. George Fox University 1997–

Glenda T. Hays, Assistant Professor of Family and Consumer Science. B.S., University of Southwestern Louisiana; M.S., Florida State University. George Fox University 2001–

Thomas F. Head, Professor of Economics. B.S., M.S., University of Oregon; M.A., University of California, Berkeley. George Fox University 1971-74; 1976-79; 1983–

W. Scot Headley, Associate Professor of Education, Chairperson of the Department of Teacher Education. B.S., M.Ed., Colorado State University; Ph.D., The Ohio State University. George Fox University 1994–

Henry C. Helsabeck, Professor of Mathematics, Chairperson of the Department of Mathematics, Computer Science, and Engineering. B.A., Culver Stockton College; M.A., M.A., Ph.D., University of Missouri. George Fox University 1978–

Edward F. Higgins, Professor of English, Chairperson of the Department of Writing/Literature. B.A., LaVerne College; M.A., California State College at Fullerton; Ph.D., Union Graduate School. George Fox University 1971–

Eloise M. Hockett, Instructor of Education/Field Experience Placement. B.A.A. and B.M., University of Minnesota. George Fox University 2001–

Karen S. Hostetter, Assistant Professor of Health and Human Performance. B.A., Seattle Pacific University; M.S., California State University-Fullerton. George Fox University 2000–

Martha A. Iancu, Associate Professor of English as a Second Language, Director of the English Language Institute. B.A., M.A., University of Oregon. George Fox University 1989–

Kerry E. Irish, Associate Professor of History. B.A., George Fox University; M.A., Ph.D., University of Washington. George Fox University 1993–

Dale R. Isaak, Assistant Professor of Health and Human Performance. B.S., Willamette University; M.Ed., University of Minnesota; M.S., Indiana State University. George Fox University 1995–

Clella I. Jaffe, Associate Professor of Communication Arts, Director of Forensics. B.A., Seattle Pacific University; M.Ed., Ph.D., Oregon State University. George Fox University 1995–

Craig E. Johnson, Professor of Communication Arts, Chairperson of the Department of Communication Arts. B.A., Luther College; M.A., Wheaton College; Ph.D., University of Denver. George Fox University 1988–

John M. Johnson, Associate Professor of Mathematics. B.S., Northwest Nazarene College; M.S., Kansas State University. George Fox University 1984–

Merrill L. Johnson, University Librarian, Associate Professor. B.A., Seattle Pacific University; M.L.S., University of Oregon. George Fox University 1980–

Michele E. Johnson, Associate Professor of Business. B.A., Wayne State University; M.B.A., University of South Dakota. C.P.A. George Fox University 1997–

Thomas F. Johnson, Professor of Biblical Theology. B.Ph., Wayne State University; M.Div., Fuller Theological Seminary; Th.M., Princeton Theological Seminary; Ph.D., Duke University. George Fox University 1997–

William G. Jolliff, Professor of Writing/Literature. B.S., Central Michigan University; M.A., Ashland Theological Seminary; Ph.D., The Ohio State University. George Fox University 1994–

Karin B. Jordan, Associate Professor of Counseling, Director of Counseling Program. B.A., Colorado Christian College; M.A., Rollins College; Ph.D., University of Georgia. George Fox University 2001–

Joseph Joseph, Associate Professor of Electrical Engineering. B.E., BITS Pilani; M.Tech., IIT Kanpur; Ph.D., IISc. Bangalore. George Fox University 2002–

Charles D. Kamilos, Technical Services Librarian. B.A., Northwest Christian College; M.Div., Brite Divinity School-Texas Christian University; M.A., University of Iowa. George Fox University 1997–

William E. Kelly, Assistant Professor of Counseling, B.A., M.A., Ph.D., Louisiana Tech University. George Fox University 2002–

Paul W. Kennedy, Associate Professor of Sociology, Chairperson of the Department of Sociology and Social Work, Assessment Coordinator. B.A., Wheaton College; M.S., State University of New York; M.A., Fuller Theological Seminary; Ph.D., University of Southern California. George Fox University 1997–



David Kerr, Assistant Professor of Art. B.A., Judson Baptist College; M.A., California State University. George Fox University 2002–

Gary M. Kilburg, Associate Professor of Education. B.S., Eastern Oregon State College; Ph.D., Oregon State University. George Fox University 1992–

Dwight J. Kimberly, Associate Professor of Biology. B.A., George Fox University; M.S., Oregon State University. George Fox University 1994–

E. Alan Kluge, Associate Professor of Business. B.S., M.B.A., Ph.D., Oregon State University. George Fox University 1996–

Christopher J. Koch, Associate Professor of Psychology. B.S., Pennsylvania State University; M.S., Ph.D., University of Georgia. George Fox University 1993–

Beth A. La Force, Professor of Education. B.S., Malone College; M.A., Western Michigan University; Ph.D., Michigan State University. George Fox University 1987–

Gregg T. Lamm, Campus Pastor. B.A., George Fox University; M.Div., Western Evangelical Seminary. George Fox University 1991–

Sharon F. Linzey, Professor of Sociology. B.A., Southern California College; M.A., M.A., Ph.D., Indiana University. George Fox University 1997–

Carleton H. Lloyd, Professor of Management. B.A., Columbia Christian College; M.A., Eastern New Mexico University; M.S., Oregon State University; M.S.S.W., Ph.D., University of Texas-Arlington. George Fox University 1994–

Howard R. Macy, Professor of Religion and Biblical Studies. B.A., George Fox University; M.A., Earlham School of Religion; Ph.D., Harvard University. George Fox University 1990–

Margaret L. Macy, Associate Professor of Education. B.A., George Fox University; M.Ed., Wichita State University, Ph.D., Walden University. George Fox University 1991–

Michael A. McGill, Professor of Engineering. B.S., M.S., and Ph.D., Oklahoma State University. George Fox University 2002–

Anita B. Maher, Assistant Professor of Marriage and Family Therapy. B.A., Millersville State University; M.A., Azusa Pacific University; M.A., Ph.D., Fuller Theological Seminary. George Fox University 1996–

Mark S. McLeod, Associate Professor of Philosophy. B.R.E., Briercrest Bible College; B.A., Westmont College; M.A., Trinity Evangelical Divinity School; Ph.D., University of California. George Fox University 1999–

Susan C. McNaught, Assistant Professor of Management. B.A., Oklahoma City University; M.S., Portland State University; Ph.D., Oregon State University. George Fox University 1996–

Randolph Michael, Associate Professor of Marriage and Family Therapy. B.A., Northwest Nazarene College; M.Div., Nazarene Theological Seminary; D.Min., Midwestern Baptist Theological Seminary. George Fox University 1996–

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 L. Mock, Director of the Center for Peace Learning, Associate 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–

Glenn 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–

David V. Myton, Interim Dean of the School of Education, Professor of Education. B.A., Youngstown University; M.Ed., University of Pittsburgh; Ph.D., The Ohio State University. George Fox University 2002–

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–

Mark L. Ocker, Assistant Professor of Management, Director of Professional Studies. B.A., George Fox University; M.A.T., Alaska Pacific University. George Fox University 1998–

Mary R. Olson, Assistant Professor of Management. B.A., M.A., Pacific Lutheran University. Ph.D., University of Idaho. George Fox University 1999–

Asbjorn Osland, Associate Professor of Business. B.A., University of Minnesota; M.S.W., University of Washington; M.B.A., Ph.D., Case Western Reserve University. George Fox University 1995–

Paul Otto, Associate Professor of History. B.A., Dordt College; M.A., Western Washington University; Ph.D., Indiana University. George Fox University 2002–

Katsu Ozawa, Associate Professor of Education. B.A., Malone College; M.A., Louisiana State University; Ph.D., Ohio University. George Fox University 2002–

Donna K. Phillips, Associate Professor of Education, Coordinator 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–

Clifford J. Rosenbaum, Assistant Professor of Social Work Program, Director of Social Work Program. B.A., Louisiana College; M.S.W., Southern Baptist Theological Seminary. George Fox University 2002–

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-

Sherrie K. Schulke, Assistant Professor of Social Work. 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-

Beth A. Shafer, Assistant Professor of Management. B.A., Northwest Nazarene College; M.A., Boise State University. George Fox University 2000-

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-

Trenton H. Smith, Assistant Professor of Biology. B.S., Western Kentucky University; Ph.D., University of South Carolina. George Fox University 2002-

Jayne L. Sowers, Assistant Professor of Education. B.S., Indiana State University; M.S., University of Tennessee; Ed.D., Portland State University. George Fox University 1999-

Ronald G. Stansell, Professor of Religion. B.A., George Fox University; M.Div., Western Evangelical Seminary; D.Miss., Trinity Evangelical Divinity School. George Fox University 1985-

Mark A. Sundquist, Assistant Professor of Health and Human Performance, Head Coach of Men's Basketball. B.A., Seattle Pacific University; M.S., Portland State University. George Fox University 2000-

Daniel S. Sweeney, Associate Professor of Counseling. B.A., San Jose State University; B.A., San Jose Bible College; M.A., Azusa Pacific University; Ph.D., University of North Texas. George Fox University 1996-

Craig B. Taylor, Associate Professor of Health and Human Performance, Director of Athletics. B.S., George Fox University; M.Ed., Linfield College. George Fox University 1975-78; 1980-

Mark E. Terry, Assistant Professor of Art. B.S., Willamette University; M.S., Western Oregon State University. George Fox University 1997-

Nancy S. Thurston, Associate Professor of Psychology. B.A., Hope College; M.A., Ph.D., Central Michigan University. George Fox University 1999-

Manfred Tschan, Assistant Professor of Health and Human Performance. B.S., State Teacher's College, Hofwil, Switzerland; B.S., University of Bern; M.S., University of Oregon. George Fox University 1988-

Timotheos Tsohantaris, Assistant Professor of Religion. B.A., Barrington College; M.A., Ashland Theological Seminary. George Fox University 1985-90; 1993-

Janis L. Tyhurst, Reference Librarian. B.A., M.L.S., University of California. George Fox University 1998-

Carrie Jo Vincent, Assistant Professor of Drama. B.A., M.A., Western Oregon State College. George Fox University 1998-

Brent H. Weaver, Associate Professor of Music, Chairperson of the Department of Fine Arts. B.A., Goshen College; M.M., University of Oregon; D.M.A., University of Oregon. George Fox University 2001-

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