

2000

2000-01 Bulletin of Information - Undergraduate

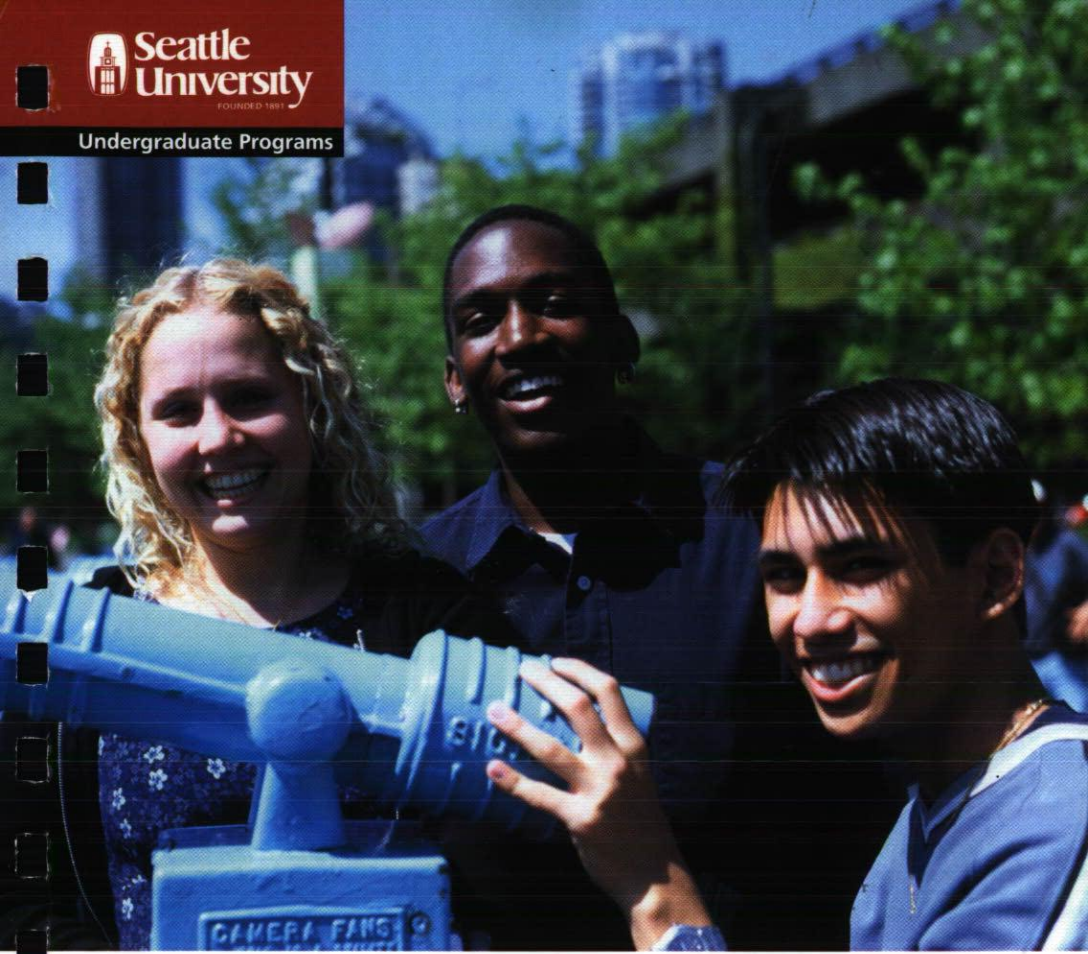
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Seattle University

2000-01 Undergraduate Bulletin of Information

Seattle University
2000 Undergraduate Bulletin of Information

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Seattle University
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Seattle, WA 98122-4340

The university reserves the right to change the fees, rules and calendar regulating admission and registration, instruction in, and graduation from the university and its various divisions and to change any other regulations affecting the student body. Changes go into effect whenever the proper authorities so determine and apply not only to prospective students but also to those who at that time are matriculated in the university. The university also reserves the right to discontinue courses at any time.

As a general rule, students follow the academic programs contained in the Bulletin of Information in effect at the time of their matriculation. However, students who withdraw from the university for four consecutive quarters or more are subjected to the requirements for their school and major and for university core curriculum in effect at the time that they are readmitted.

Seattle University complies with federal, state, and local laws, and regulations pertaining to civil rights and equal-opportunity employment. The university does not discriminate on the basis of sex, race, color, national origin, religion, age, marital status, Vietnam era veteran status, or sexual or political orientation. The university does not discriminate against persons who are handicapped or disabled and the university will make reasonable accommodation for such handicaps or disabilities, unless to do so would cause an undue hardship.

The university complies with all applicable laws requiring affirmative action in employment. All university policies, practices, and procedures are administered in a manner consistent with Seattle University's Catholic Jesuit identity.

Inquiries relating to these policies may be referred to the university's assistant vice president for human resources and affirmative action officer.

Information concerning graduate programs may be obtained in the *Graduate Bulletin of Information*.

For more information:

Admissions Office
(206) 296-5800

Toll-free
(800) 426-7123

Financial Aid Office
(206) 296-5840

Residential Facilities Office
(206) 296-6274

General Information
(206) 296-6000

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2000-2001 Academic Year

Summer Quarter 2000

June 4-26	Summer 2000 Registration Resumes (touchtone)
June 15 (Th)	Tuition and Fees for Summer Quarter Due
June 19 (Mon)	Classes Begin - First and Full Term
June 26 (Mon)	Last Day, Add/Drop or Change Grading Options - First 4-Week, 7-Week & 8-Week Terms
June 27 (Tues)	Registration Continues - Second 4-Week Term and Interession
June 27 (Tue)	Fall, 2000 Registration Resumes (touchtone)
June 30 (Fri)	Last Day to Withdraw - First 4-Week Term
July 4 (Tues)	Independence Day observed - No Classes
July 17 (Mon)	Classes Begin - Second 4-Week Term
July 24 (Mon)	Last Day to Add/Drop or Change Grading Options - Second 4-Week Term
July 28 (Fri)	Last Day to Withdraw - Second 4-Week; 7-Week & 8-Week Terms
August 1 (Tue)	Last Day to Remove N Grade - Summer, 1999
August 5 (Sat)	Last Class Day - 7-Week Term
August 12 (Sat)	Last Class Day - 8-Week Term
August 16 (Wed)	Grades Due, 10 am

Interession 2000

August 14 (Mon)	Classes Begin
August 21 (Mon)	Last Day to Register, Add/Drop or Change Grading Options
August 25 (Fri)	Last Day to Withdraw
September 4 (Mon)	Labor Day - No Classes
September 11 (Mon)	Last Class Day
September 13 (Wed)	Grades Due, 10 am

Fall Quarter 2000

September 12 (Tues)	University Convocation for Faculty and Staff
September 14-18 (Thurs-Mon)	New Student Orientation (All new students are required to be present)
September 15 (Fri)	Tuition and Fees Due for Fall Quarter
September 19 (Tues)	All Classes Begin
September 26 (Tues)	Last Day to Register, Add/Drop or Change Grading Option
October 24 (Tues)	University Mission Day for Faculty and Staff - No Classes until 3:30 p.m. Classes at 3:30 p.m. and after <u>will</u> be held
October 27-29 (Fri- Sun)	Parent's Weekend
November 1 (Wed)	Last Day to Apply for Spring & Summer 2001 Graduation
November 6-9 (Mon-Th)	Advising Week for Winter 2001 Registration
November 10 (Fri)	Veteran's Day - No Classes
November 12 (Sun)	Advance Registration - Winter, 2001 Begins
November 15 (Wed)	Last Day to Remove I Grade from Spring/Summer 2000 <u>and</u> N Grade from Fall 1999
November 17 (Fri)	Last Day to Withdraw with W grade

November 22-25 (Wed-Sat)	Thanksgiving - No Classes
December 2 (Sat)	Last Class Day
December 4-9 (Mon- Sat)	Final Examinations
December 13 (Wed)	Grades Due, 10 am
December 15 (Fri)	Tuition and Fees for Winter Quarter Due

Winter Quarter 2001

January 3 (Wed)	All Classes Begin
January 10 (Wed)	Last Day to Register, Add/Drop or Change Grading Options
January 15 (Mon)	Martin Luther King's Birthday - No Classes (Sat., Jan. 13 classes <u>will</u> meet as scheduled)
February 1 (Th)	Last Day to Apply for Fall 2001 and Winter 2002 Graduation
February 16 (Fri)	President's Day - No Classes (Sat., Feb. 17 classes <u>will</u> meet as scheduled)
February 19-22 (Mon-Th)	Advising Week for Spring 2001 Registration
February 23 (Fri)	Advance Registration - Spring, 2001 Begins
March 1 (Th)	Last Day to Remove I Grade from Fall, 2000 <u>and</u> N Grade from Winter 2000
March 1 (Th)	Last Day to Withdraw with W Grade
March 12 (Mon)	Last Class Day
March 13-17 (Tues-Sat)	Final Examinations
March 20 (Tues)	Tuition and Fees for Spring Quarter Due
March 21 (Wed)	Grades due, 10 am

Spring Quarter 2001

March 26 (Mon)	All Classes Begin
April 2 (Mon)	Last Day to Register, Add/Drop or Change Grading Options
April 13 (Fri)	Good Friday - No Classes
April 14 (Sat)	Easter Holiday - No Classes
May 1 (Tues)	Last Day to Remove I Grade from Winter, 2001 and N Grade from Spring 2000
May 14-16 (Mon-Wed)	Advising Week for Summer & Fall 2001 Registration
May 16-20 (Wed-Sun)	Advance Registration - Summer, 2001
May 21-June 1 (Daily)	Advance Registration - Fall, 2001
May 23 (Wed)	Last Day to Withdraw with W Grade
May 28 (Mon)	Memorial Day observed - No Classes (Sat., May 26 classes <u>will</u> meet as scheduled)
June 4 (Mon)	Last Class Day
June 5-9 (Tues-Sat)	Final Examinations
June 9 (Sat)	Baccalaureate
June 10 (Sun)	Commencement
June 13 (Wed)	Grades Due, 10 am

General Information

Purpose and Scope

Seattle University's purpose is to foster the discussion, interpretation and transmission of knowledge, ideas and values. The university is dedicated to the extension of the frontiers of knowledge by critical and exhaustive investigation and experimentation. Providing thorough, intelligent training in theory and principles, Seattle University prepares students for professional careers and a lifetime of service.

Well into its second century of educational service, Seattle University is dedicated to its historical mission of:

- teaching and learning
- education for values
- preparation for service
- growth of persons

As a comprehensive institution of higher learning, Seattle University brings this four-fold mission to bear on all its activities and programs, its relations with its students, its own community of educators, and with the various publics it serves.

Conducted under the auspices of the Society of Jesus (the Jesuits), Seattle University supports Christian ideals and values. It affirms the belief in the unity and totality of all human knowledge, whether experiential, speculative, or divinely revealed. As a community inspired with the Spirit of Christ, the campus atmosphere inside and outside the classroom encourages an unbiased, truly liberated, and enlightened intelligence in its faculty and student body.

History

Founded in 1891, Seattle University has offered a value-based education in the Jesuit tradition for more than a century. The university's development into one of the Northwest's leading centers of higher education is closely woven with the history of Seattle and the Puget Sound area. It is a story of relentless effort to serve the educational needs of a growing metropolitan community and its surrounding region.

Seattle University had a humble beginning. In 1890, Father Aegidius Junger, bishop of what was then called the Nisqually Diocese, concerned over the lack of educational opportunity for Catholic youth in the Seattle area, sent repeated requests to the Jesuits of the Rocky Mountain Mission territory to establish both a parish and a school in the young city. In response to the intrepid bishop's appeals, Fathers Victor Garrand and Adrian Sweere arrived from the Yakima station in the spring of 1891.

The two Jesuits immediately leased St. Francis Hall, a building that had been constructed at 6th and Spring in downtown Seattle the previous year by Father Francis X. Prefontaine, the area's first resident priest. Rededicating the building as the Parish and School of the Immaculate Conception, aided by two Holy Names sisters serving as full-time teachers, the good fathers began their modest educational effort.

With the advice and assistance of Father Prefontaine, the mission procurator purchased property that ultimately became the present campus. In 1893, the cornerstone of the first building was laid and the new parish and school was opened for classes in September 1894.

In 1898 articles of incorporation were filed changing the parish school for boys into Seattle College. In the face of the still prevailing frontier mentality that saw little need for higher education other than in the professions, a college department in humanities was instituted in 1900. The first three graduates were awarded bachelor of arts degrees in 1909.

A temporary casualty of World War I, college classes at Seattle College were suspended from

1918 to 1922. In 1919, the successful high school department moved to a new seven-acre campus on Interlaken Boulevard, a gift of Thomas C. McHugh. On its reinstatement, following the war, the college department was also housed at the new campus. Three baccalaureate degrees were granted in 1925.

In 1931, with an enrollment of fewer than 50 students, Seattle College returned to a partially renovated building at the present Broadway and Madison campus. Within two years, women were enrolled in credit courses, and in 1936, the first women received their degrees. Just prior to that, the first professional degree program was established with the introduction of the School of Education. In 1937, the college was fully accredited by the Northwest Association of Secondary and Higher Schools. The School of Nursing was officially opened in 1940, and the School of Engineering in 1941.

Returning World War II veterans in 1945 discovered the newly established School of Commerce and Finance, Seattle College's fifth major academic unit. By 1948, the enrollment in all programs neared 3,000 students. That year an amendment to the articles of incorporation officially changed the institution's name to Seattle University.

Rapid expansion of both the physical boundaries and educational facilities of Seattle University marked the decades of the 1950s and 1960s. With just three permanent buildings and three war surplus structures in 1950, the university added or converted 12 major buildings over the next 20 years. Most of the development occurred under the direction of Father A.A. Lemieux, president of the university from 1948 to 1965.

The curriculum then expanded with new programs including the School of Science and Engineering (1972), the doctorate in educational leadership (1976), and Matteo Ricci College (1977).

The 1980s brought master-level programs in software engineering and psychology, along with a baccalaureate degree in computer science and programs in communication studies and international business.

New academic programs introduced since 1990 include a master in teaching degree, master's degree programs in student development and in adult education and training, bachelor's degrees in international studies and biochemistry, and the region's only bachelor's degree in civil engineering with an environmental track. The Albers School of Business and Economics initiated master's programs in finance, applied economics, and international business and added operations management as an undergraduate business option. The School of Nursing instituted a master of science in nursing in 1992, and the School of Law joined the professional schools in fall 1994.

The 1995-96 academic year brought an English/Creative Writing major and minor, a specialty in manufacturing engineering, a new multidisciplinary bachelor of arts degree in ecological studies, as well as an executive master's degree in not-for-profit leadership, the first of its kind in the United States.

Created in July 1996, the School of Theology and Ministry diversifies the graduate theology program that began in 1985. This school houses institutes for both Catholic and ecumenical theological studies.

The 2000-2001 academic year brings a new bachelor of arts degree in art history, a new bachelor of arts degree in electronic commerce and information systems, and two new concentrations in the MBA program: studies in entrepreneurship and electronic commerce and information systems.

Organization

As an independent, coeducational institution, Seattle University is incorporated under the laws of the state of Washington and operated by its own board of trustees. The university, administered under the auspices of the Society of Jesus, is one of 28 Jesuit institutions of higher education in the United States. Seattle University derives its tradition and objectives from the

academic experience and educational ideals of the Society of Jesus and the Christian tradition. The university is composed of eight major academic units:

College of Arts and Sciences

The college is comprised of 12 undergraduate departments: Communication/Journalism; Ecological Studies; English/Creative Writing; Fine Arts; Foreign Languages; History; Military Science; Philosophy; Political Science/Public Administration; Psychology; Sociology/Criminal Justice; and Theology and Religious Studies. Program divisions include: addiction studies, honors, international studies, liberal studies, prelaw, and premajor. The college also offers a master's program in psychology and houses the Institute of Public Service, which includes graduate programs in not-for-profit leadership and public service.

Albers School of Business and Economics

The school offers undergraduate degrees in accounting, e-commerce, economics, finance, international business, management, marketing, and operations, and an individualized major in business administration. Post-baccalaureate and post-graduate certificates are offered by the graduate division in addition to master's degrees in applied economics, business administration, international business, and finance.

School of Education

The graduate degrees offered by the School of Education qualify students for teaching certificates, principal's certificates and counseling certificates issued by the Office of the Superintendent of Public Instruction. The master in teaching program offers teacher preparation in conjunction with a graduate degree.

School of Law

In 1994 Seattle University became the 14th Jesuit university to include a law school. Formerly the University of Puget Sound School of Law, the 21-year-old school has a fine reputation for excellence in teaching law. With 841 students and 41 full-time faculty members, it is the largest law school in the Northwest and has the most diverse student body. The School of Law offers a juris doctor degree.

Matteo Ricci College

This is the three-year university phase of a program that integrates high school and university level studies, enabling students to complete their high school education and a university bachelor degree in six or seven years, rather than eight.

School of Nursing

A baccalaureate degree in professional nursing is offered, which qualifies students for registration through state licensure. Registered nurses who intend to complete requirements for the bachelor of science in nursing degree are also admitted to the program. A master of science in nursing offers advanced practice options.

School of Science and Engineering

The school includes the biology, chemistry, computer science/software engineering, diagnostic ultrasound, general science, mathematics, and physics departments, as well as civil and environmental engineering, electrical engineering, and mechanical/manufacturing engineering. A master's program in software engineering is also offered.

School of Theology and Ministry

Seattle University established the School of Theology and Ministry (STM) in 1996. STM consists of two institutes: The Institute for Catholic Theological Studies and the Institute for Ecumenical Theological Studies. Through these institutes students earn graduate degrees in pastoral ministry, spirituality, and divinity. The Catholic Institute is a joint effort with the

Archdiocese of Seattle and the Ecumenical Institute works with ten denominations and two associations. Both institutes prepare women and men for lay as well as ordained ministry.

Summer School

Undergraduate students may enroll in a variety of summer school courses offered in intensive formats, in seven- and eight-week terms, and during intersession, which begins after the conclusion of regular summer offerings.

Accreditation and Membership

Seattle University is accredited by, and is a member of, the following academic and professional bodies.

Accreditations:

Accreditation Board for Engineering and Technology
American Bar Association
American Chemical Society
Association of Theological Schools
Commission on Accreditation of Allied Health Education Programs
International Association for Management Education (formerly AACSB-IAME)
National Council for Accreditation of Teacher Education
National League for Nursing Accrediting Commission
Northwest Association of Schools and Colleges

Approvals:

American Medical Association
American Society of Clinical Pathologists
Commission on Collegiate Nursing Education (Preliminary)
National Association of School Psychologists
Washington State Board of Education
Washington State Nursing Care Quality Assurance Commission

Memberships:

American Association of Colleges for Teacher Education
American Association of Colleges of Nursing
American Association of Collegiate Registrars and Admissions Officers
American Association of Higher Education
American Council on Education
Association of American Colleges
Association of American Law Schools
Association of Catholic Colleges and Universities
Association of Governing Boards
Association of Jesuit Colleges and Universities
Council for the Advancement and Support of Education
Independent Colleges of Washington
Institute for International Education
International Federation of Catholic Universities
NAFSA: Association of International Educators
National Association of College Admission Counselors
National Association of Graduate Admissions Professionals
National Association of Independent Colleges and Universities
National Association of Intercollegiate Athletics
National League for Nursing
The College Board
Washington Council on High School-College Relations
Washington Friends for Higher Education

Campus

With the natural splendor of Puget Sound providing a breathtaking backdrop, Seattle University offers all the educational advantages of a metropolitan-area college. The 46-acre campus on historic First Hill is nestled on the edge of downtown Seattle.

The campus is growing to serve the needs of approximately 6,000 students and 400 faculty members. The Centennial Fountain, designed by George Tsutakawa, is located in the center of campus. The fountain and Quadrangle provide a favorite open-air meeting place for the campus community. In the Thomas J. Bannan Center for Science and Engineering, teaching and research laboratories feature state-of-the-art equipment for undergraduates. The Bessie Burton Sullivan Skilled Nursing Residence is an integral part of the service orientation of the campus, allowing nursing students to develop skill in the care of older persons.

Admissions, Financial Aid, the Registrar and Controller, Human Resources, Public Safety, and the Book Store are under one roof in the University Services Building.

The Connolly Center, an indoor sports and recreation facility, features two swimming pools, basketball, badminton, tennis, and racquetball courts, a weight room, and dance area. All home games for the men's and women's basketball teams are played on the north court and the center is headquarters for Seattle University's intramural program.

A new addition to the Pigott Building, which houses the Albers School of Business and Economics, opened in fall 1994, and the remodeled main building opened fall 1995. A newly remodeled Loyola Hall houses the School of Education, and the Garrard Building—the university's historic first building—re-opened in 1994 as the new home for the School of Nursing. The School of Law moved into its new building in fall 1999.

In April 1997, Seattle University dedicated its first free-standing chapel to St. Ignatius of Loyola. The architecture catches the sense of Ignatian inspiration as "light from above" that is both illuminating toward truth and empowering toward service. A large reflection pool at the entrance mirrors the colors of the sky by day and the lights of the chapel at night. A fifty-two foot tower encloses two bronze bells named for the Jesuit spiritual director, Bl. Peter Faber and the Northwest missionary sister, St. Francis Xavier Cabrini.

Lemieux Library

Constructed in 1966, A.A. Lemieux Library is the university's library with centralized collections and facilities, access to remote electronic resources, and professional services providing informational, instructional, and research support to all of SU's academic programs. The library offers an on-line catalog running the Sirsi Unicorn system, a gateway module that connects users to other libraries' catalogs, and a web site providing access to a growing number and variety of electronic information resources. The catalog, gateway, and web pages are accessible from any computer linked to the campus network, and to authorized SU users from off-campus by means of a remote authentication service. The library houses a growing collection of 210,000 volumes, 2,500 current print periodical and serial subscriptions, 500,000 microforms, and a variety of media materials. Lemieux Library currently offers 15 CD-ROM databases on site; the Unicorn gateway and library web page provide subscription access to 20 databases, including full-text, and more than 140 electronic journals and related services. The on-line and CD-ROM resources support both general and specialized instruction and research.

In addition to its collections, the library is a service center. The reference and instructional services staff assists students in ways that range from personal instruction in the use of the catalog and web resources to advising on advanced, specialized research materials to the development of bibliographies. Classroom presentations are given throughout the year. To supplement its on-site collections and remote electronic resources, the library provides

subsidized interlibrary loan and document delivery services as well as specialized database search services.

Other library services include a course reserve collection, a 24-hour reading/study room, media carrels for using non-print materials, and self-service photocopiers. The library seats more than 800 people in open study areas, small-group conference rooms, and individual carrels.

Teaching and Service

Teaching is the first priority of Seattle University and its faculty has distinguished itself through its commitment to teaching excellence. Courses are taught by highly qualified faculty rather than by graduate students. Most full-time faculty have earned doctoral degrees and are active scholars, contributing to the advancement of their fields. Many have achieved national and international recognition, but teaching remains their primary commitment.

A Seattle University education can be put to work through internships as degree completion nears. The university's graduates are well-received by corporate, institutional, and public-sector employers.

Students from all majors are encouraged to expand their understanding of other countries and cultures by studying, working, or doing community service outside U.S. borders. University academic programs are available annually in Grenoble, France; Graz, Austria; Frankfurt/Oder, Germany; Puebla, Mexico; Tokyo, Japan; and Taejon, Korea. Voluntary service opportunities are organized in India, in addition to dozens of local and regional projects.

Student Development

The Student Development Division provides services, activities and programs that support students in their academic efforts, and enhance their social, emotional, cultural, physical, spiritual, and intellectual development. The division engages students in programs that encourage personal reflection and integration of learning both inside and outside the classroom. Specific student services are available to enrich and support the educational experience. Finally, the division prepares students for leadership and service in a pluralistic, world community.

The office of the vice president for Student Development provides the administrative leadership for the Student Development Division and serves as a source of information and assistance for many students.

The **Associated Students of Seattle University (ASSU)**, Seattle University's undergraduate student government, offers services and programs including supporting student clubs and their events, student locker rentals, and advocacy for campus issues. To learn how to get involved in ASSU please call (206) 296-6050.

The **Campus Assistance Center (CAC)** serves as a convenient one-stop information, resource, and referral service located on the first floor of the Student Union Building. The CAC provides a variety of services including: off-campus housing information, poster/flyer approval, ticket sales, and publishing the "What's Happening."

Campus Life is committed to creating a vibrant center of student life and learning on campus. A variety of enjoyable social activities, events and programs help students create community with each other. In addition, through diverse programs and experiences, students are invited to learn about themselves, their communities, their leadership roles, and their life choices. The office also sponsors an annual leadership retreat that brings together diverse student leaders from across the campus. The areas within Campus Life include: Leadership and Service, New Student Programs, Residential Living, Student Activities, and Wellness and Prevention (please see each individual listing for more detail).

The **Campus Ministry** team develops faith community, provides pastoral care, reaches out to serve others, promotes social justice, and celebrates God's presence through worship and fellowship. Campus Ministers foster opportunities for personal and spiritual growth through educational offerings, international service experiences, and a variety of retreat programs.

Within the university's mission, Campus Ministry challenges students to integrate both intellectual and spiritual development. Persons of all faith traditions are welcome. We support the diversity and richness of faith traditions reflected in our university community.

The Chapel of Saint Ignatius provides a spiritual home for the university's Catholic faith community, with daily and Sunday liturgies. The Campion main and south chapels provide worship spaces for denominational and ecumenical worship. The south chapel is a clean space available for religious services for non-Christian members of the Seattle University community. In addition, the Immaculate Conception Chapel, located on the second floor of the Administration Building, and the Saint Robert Bellarmine Chapel, located off the Bellarmine Residence Hall lobby, offer places of personal refuge and prayer.

The retreat programs are designed to provide progressive opportunities for self reflection. ESCAPE is a non-religious overnight experience to assist first year students in their adjustment to college life. SEARCH is a weekend retreat in the Christian tradition, which explores relationships with self, God, and others. AGAPE is a peer-led retreat in the Catholic tradition, for juniors and seniors, which takes a deeper look at faith commitment. SENIOR RETREAT helps graduating students reflect upon their SU experience, and look forward to their life after college. *The Spiritual Exercises of St. Ignatius Of Loyola*, provide three and five day silent retreat formats for experiencing Ignatian spirituality.

Campus Ministry invites students to engage in leadership and service informed by faith and values. Significant service and social justice opportunities through Campus Ministry include weekly meal preparation for families and homeless teenagers, prison visitation, daycare and family support at a shelter, and attention to residents of a skilled nursing facility. Soup With Substance engages the community in reflection upon current social issues in light of faith. International Reach Out programs to Belize and Mexico, engage students in direct action and reflection upon world citizenship, global economics and social justice. Urban Plunge, Habitat for Humanity, local and spring break projects, and community organizing offer experiences to develop leadership skills in social action.

Each campus minister is available for pastoral counseling upon request. Faith formation processes for those seeking community, fellowship and increased opportunity to learn and grow in faith are available.

The **Career Development Center** offers career counseling appointments, assistance with selecting an academic major, personalized job search assistance, including resume writing, cover letters, interviewing skills and job search strategies. The center provides full-time job listings, internship listings, hosts employers who interview graduating students on campus, and sponsors career fairs to help students meet with employers of interest. Open to all students and alumni, career development services include:

- individualized career counseling
- Career Expo
- computerized career exploration
- Arts and Sciences Mentor Program
- career testing (Strong Interest Inventory, Myers-Briggs Type Indicator)
- resume preparation
- interview preparation
- campus interviews with employers
- full-time job and internship listings
- career resource library
- information on Internet sites for job listings, careers, and employers

The **Collegia Program** was created to provide a "home away from home" for commuter students, providing a place for students to study, socialize, and relax. Each collegium is a unique homelike environment including a kitchen area, computer space, tables for studying, access to a telephone, and office supplies. An honor bar system makes drinks and snacks available. Each Collegium is staffed by a graduate student who provides a welcoming presence and is a resource to students. Commuter students are enrolled in the Collegia on a "first-come, first-served" basis; there is no fee.

Three rooms serve different populations. The Lynn Collegium, Lynn Building, is open to undergraduate commuter students in the College of Arts and Sciences. The Chardin Collegium, Xavier Hall, is a "mixed Collegium" serving undergraduate commuting students in the Schools of Nursing and Business. The McNulty Collegium, Lemieux Library, is open to undergraduate Science and Engineering students and commuter graduate students from all programs. For more information contact the Collegia staff office at (206) 296-2809.

The **Counseling Center** offers individual, couple, and group counseling to students who may be experiencing a variety of issues such as feelings of depression or anxiety, relationship problems, stress or life changes. The Counseling Center also sponsors various workshops offered throughout the school year on subjects such as stress management, assertiveness training, conflict resolution, life change adjustments, relationships, self-esteem, and other topics of interest to students. Counseling is available free of charge to enrolled students. All information regarding the counseling of a student is strictly confidential and released only by written consent of the student or when required by law.

The **Culture and Language Bridge Program** is designed to prepare non-native speakers of English for a productive academic career at Seattle University. The primary goal of the program is to provide admitted Seattle University students with the background in the American academic culture and language skills essential for success in their studies. The courses offered in the program are highly advanced, with a specific focus on university-level reading, writing, listening, and speaking skills. The program is offered during the fall, winter, and spring quarters. Courses for undergraduate students are not offered in the summer, and classes for graduate students are taught when there is sufficient need. The office is located in the Student Union Building, room 208. (See index of topics for location of Culture and Language Bridge courses.)

Disabilities Services is a component of the Learning Center which provides academic counseling, support, advocacy, and referrals for students with mobility, sensory, learning, health and psychological disabilities. This resource can help with aids and accommodations, such as testing adaptations, notetakers, books on tape, room changes, adaptive/auxiliary aids, and interpreters. Written documentation of a student's disability from a qualified professional must be submitted before accommodations can be provided. Copies of the Seattle University Section 504/ADA Policy and Appeal Procedure are available at the Learning Center.

The **Graduate Student Council (GSC)**, the University's graduate student government, focuses on advocating for the needs of and addressing concerns with special relevance to graduate students. To learn how to get involved in the GSC please call (206) 296-2157.

The **International Student Center** serves 500 students from approximately 72 countries around the world. The center strives to enable international students to achieve success at Seattle University and through the contribution of their unique cultures and perspectives to enrich the entire university community. The International Center also serves as a focal point for activities and programs of a cultural, educational, or social nature, and as a gathering place for students and student organizations.

The **Leadership and Service Office** provides opportunities for students to engage in experiences that prepare them to be leaders well able to serve their communities. Students interested in service in the community can access a wide range of agencies, from those working

with vulnerable populations to those specializing in environmental concerns. The office also supports the service-learning program, linking academic coursework to the learning laboratory of the surrounding community. In addition, the office provides a variety of leadership programming for students, including workshops to develop leadership skills and opportunities to interact with prominent leaders in the area.

The **Learning Center** provides academic support and study skill enhancement to all Seattle University students. Experienced staff explore specific academic needs with each student. The Learning Center can provide tutors, learning style assessment and study skills instruction, as well as individual consultation to help design strategies to improve time management, reading comprehension, test preparation, test taking, and note taking.

The **McGoldrick Student Center** houses four departments: Campus Ministry, the Career Development Center, the Counseling Center, and the Office of Minority Student Affairs. Also located in this building is the Peace and Justice Center.

The **Office of Minority Student Affairs** focuses on the academic, social, and personal success of the American ethnic student through supportive advocacy, leadership opportunities, and advising. To accomplish these goals the office supports, promotes, and offers programming that emphasizes the importance of retaining students of color within our campus community.

The **New Student Programs Office** sponsors programs each summer and throughout the year to facilitate the social and academic adjustment of new freshmen and transfer students. Major programs include Fall Orientation: Building for Success, fall quarter freshmen groups and New Student Speak Out. Modified orientation is also held during winter and spring quarters.

The **Senior Class Committee** is made up of seniors who are interested in volunteering their time to plan and implement various activities associated with the graduation class. The general responsibilities of the committee will include involvement with commencement, running the process for choosing the recipients of outstanding faculty, staff and student awards, and planning the senior dinner cruise. Various other activities may be planned by the committee throughout the year.

The **Student Activities Office**, as an integral part of Seattle University, serves to actively promote a sense of community at Seattle University and is dedicated to sustaining a dynamic campus environment that complements and enhances the overall educational mission of the University. Recognizing and valuing cocurricular learning opportunities, the student activities staff seeks to provide a healthy balance between academic pursuits & campus activities through its programs, activities, services and facilities.

Located in the Student Union Building, the Student Activities Office includes the following areas: Campus Assistance Center, Student Union Building, Student Conduct, Student Clubs and Organizations, Commuter Student Services and the Collegia Program. Student activities staff advise the following student organizations: Associated Students of Seattle University (ASSU), Graduate Student Council (GSC), Senior Class Committee, Student Events and Activities Council (SEAC), the Student Union Board of Managers (SUBOM).

Student Clubs and Organizations at Seattle University offer students many opportunities to develop leadership skills, broaden their social and professional backgrounds, and contribute significantly to both the university and surrounding communities. A list of currently registered student clubs and organizations is available from the Student Activities Office. Various opportunities include, but are not limited to: community service clubs, scholastic honor societies, cultural heritage clubs, pre-professional organizations, sports and recreation clubs, and special interest groups.

The **Student Events and Activities Council (SEAC)** is responsible for planning and implementing campus-wide social activities such as concerts, dances, comedy shows, lectures,

and public forums. Traditional campus-wide programs include Lawncrawl (fall quarter), Winterball (fall quarter), Battle of the Bands (winter quarter), and Quadstock (spring quarter). To learn how to get involved in SEAC please call (206) 296-6047.

The **Student Health Center** provides primary care to all enrolled students. A nurse practitioner and/or physician are available daily during scheduled office hours. Consultation for medical problems is provided at no charge. A small fee is charged for preventative services like complete physicals and women's annual exams. Prescription medications are available at a minimal cost. Laboratory tests are available at a reduced rate. There are small charges for certain routine office procedures. Most immunizations are provided to students at cost. All services are confidential and no information is released without student permission, unless required by law. Students under the age of 18 must have an authorization for treatment signed by a parent or guardian. The university provides a voluntary health insurance plan for students and their dependents at low cost.

The **Student Union Board of Managers (SUBOM)** is a group of students, faculty, and staff members responsible for developing and implementing policies and services for the Student Union Building and sponsoring a co-curricular series of activities and programs that enhance the learning environment of the university. To learn how to get involved with the SUBOM please call (206) 296-6042.

The **Student Union Building (SUB)** is a hub of campus activity, offering all members of the Seattle University community a place to eat, relax, socialize, meet friends, and study. The SUB houses the Associated Students of Seattle University (ASSU), the Graduate Student Council (GSC), the Student Union Board of Managers (SUBOM), the Spectator (student newspaper), and KSUB (student radio station); as well as administrative offices for Student Development, Campus Life, Student Activities, Leadership and Service, New Student Programs, Wellness and Prevention, and the Culture and Language Bridge program. Also located in the SUB are the Campus Assistance Center, a Bon Appetit dining area, a computer room, and student lounges.

University Food Services provides meals at four locations on campus. The Columbia Street Cafe is the main university dining room and is located in Bellarmine Hall. The Chieftain specializes in fast food, and is located in the Student Union Building. The Cave is a convenience store located in Campion Residence Hall. The Bannan Center for Science and Engineering and the Paccar Atrium house small food service carts offering coffee, espresso, muffins, donuts, cookies, chips, and bottled beverages. In addition, the Paccar Atrium cart offers soup and pre-packaged salads and sandwiches.

University Sports offers opportunities for students of all ages and skill levels. Seattle University is a member of the Pacific West Conference, NCAA Div-II, serving its third provisional year. The university competes in soccer, basketball, tennis, cross country, and swimming for men and women, as well as women's softball and volleyball. The university places a high priority on its intramural, club, and recreational sports programs, and provides a wide variety of indoor, outdoor, and off-campus activities. The Connolly Center serves as the major sports facility for intercollegiate athletics, intramurals, and recreation activities. Indoor facilities include two full-sized gymnasiums for sports such as basketball, volleyball, and badminton; two swimming pools for all water sports; a weight room (Olympic and Cybex circuit) and exercise area; five racquetball courts and two squash courts; an astro gymnasium with AstroTurf floor for activities such as tennis, jogging, and soccer; and saunas in the men's and women's locker rooms. Outdoor facilities include four tennis courts and a two-field complex for soccer, flag football, volleyball, softball, and jogging.

The **Wellness and Prevention Center** supports the campus community in making responsible wellness-oriented choices. Some of the primary issues addressed by the center include prevention of substance abuse, sexual assault and HIV/AIDS, as well as the management of stress. Programs and services include educational programs by staff and student peer

educators, consultation and informational workshops, evaluation of the campus environment, policy support, and resource materials. Substance abuse services include consultation, referral, and the Choices education program for addressing personal alcohol and other drug decisions.

Residential Facilities

Residence Requirement

Seattle University requires full-time freshman and sophomore students under 21 to live in university residence halls unless they are married or living with parents.

Residence Halls and Murphy Apartments

There are three residence hall communities on campus, each with its own personality and traditions, and recently opened apartments for single juniors, seniors and graduate students. Bellarmine Hall, centrally located on campus, houses 350 students. Campion Residence Hall is located on the south end of campus and houses 450 students. Xavier Hall is located at the north end of campus and houses 170 students. Apartments house 330 students.

Each residence hall offers quiet study areas, lounges, recreation rooms, kitchens, and a limited number of storage lockers. Students may choose traditional lifestyle floors, substance-free floor, quiet floors, over-21 floors, floors dedicated to health and wellness issues or to the freshman-year experience. The apartments have a community/recreation room and a study lounge.

Residence halls offer many opportunities for leadership development in residence hall student government, as a paraprofessional staff member or resident assistant, in activity preparation, and many other ways.

Each hall is staffed with a residence hall director, aided by two resident assistants plus one faculty or staff moderator on each floor. Murphy apartments are staffed with a manager and assistant manager.

For more information about all housing, visit the Residential Services Office, on the first floor of Bellarmine Hall, or call (206) 296-6274.

Application for Residence Halls

Requests for on-campus student housing are made through the director of Residential Services. A deposit is required for reservations. See the Costs section of this bulletin for housing cost information. Cancellation of reservations must be received by the director of Residential Services no later than August 1, or the deposit will be forfeited. Residents who terminate their stay in university residence halls before the end of the academic year will be subject to financial penalties.

Additional Student Services

Academic advising is coordinated through the various schools within the university by the deans and department chairpersons for each academic major. Adviser assignments are normally made during the fall orientation period.

Alumni of Seattle University may audit undergraduate courses for a nominal fee of \$55 per class, with permission from the instructor. To sign up for this unofficial audit, contact the Alumni Relations Office at (206) 296-6100. Other services available to alumni include discount membership at the Connolly Center; library privileges; career networking and job-placement services; free subscription to the *SUN*, Seattle University's alumni magazine; McGoldrick Alumni Scholarships for undergraduate students whose parents or grandparents are alumni; and invitations to a wide variety of workshops, seminars and social gatherings in Seattle and other regional locations.

The **Book Store** is the source of all required textbooks and course-related supplies. In addition, it offers computers and software, and a selection of apparel and gift items with Seattle University imprinting. Other sections include greeting cards, snack foods, and sundries. Any book not in stock may be special ordered, film may be left for processing, and, at the end of each quarter, used books may be sold back for cash.

The **Early Success Program** is designed for freshmen who do not meet standard admission requirements but show academic promise. The program prepares students for the academic rigors of Seattle University by providing them with the opportunity to elevate academic skills in preparation for university admission. See program details in the index of topics.

The **Office of Freshman Success** supports and recognizes the academic success of freshman students. The office, in conjunction with the Freshman Council, also organizes social activities for freshmen. Freshmen can participate in workshops, the Mentor Program, and sponsored events where faculty and students interact outside the classroom. The office is a one-stop answer center for any and all questions that freshmen have as they navigate their first year of college.

The **Patricia Wismer Women's Center** is a campus office that advocates, educates, and is a resource for the entire Seattle University community about women's issues. In particular, the center focuses on the growth of women within Jesuit, Catholic, and feminist frameworks. In connection with its educational mission, the center provides forums, films, discussion groups, and speakers. Each spring quarter, it sponsors a series of events called Her Story. The center is located in Loyola 103 and houses an art gallery with monthly exhibits, and a reference and resource library. It is a comfortable drop-in place for meeting, eating, study, and networking. The center's director is available for consultation by appointment at (206) 296-2144.

Public Safety provides 24-hour security for the campus community and its facilities. Security personnel are available to assist students in a variety of ways, including first aid, escort services, crime prevention, lost and found, and assistance with vehicles with dead batteries or keys locked inside. Security persons are uniformed and easily recognizable should assistance be needed. For service or information, call (206) 296-5990 (24 hours). Emergency only, call (206) 296-5911 (24 hours).

Undergraduate Admission

Admission Policy

Regulations in this bulletin are supplemented by memoranda that set forth policy in greater detail. References to applicable policy statements are noted parenthetically. Copies of these policy memoranda may be obtained from the Registrar's Office.

The university's admission policy is administered by the provost and the dean of admissions. Acceptance of an admission offer implies adherence to the university policies and code of conduct. All academic documents submitted by applicants become the property of Seattle University. Students should refer to any specific school or departmental requirements in addition to the general admission requirements outlined in this section. This information is found in subsequent sections of this bulletin.

Seattle University selects students who have demonstrated the moral character and scholastic ability necessary to earn a degree here.

The dean of admissions reserves the right to withdraw admission for academic or personal reasons. An individual's past conduct, particularly as it may relate to unlawful or criminal behavior, may interfere with the university's ability to provide a proper learning environment. Seattle University reserves the right to deny admission or continued enrollment to individuals who have engaged in unlawful or criminal behavior. It is the student's responsibility to disclose in writing to the dean of admission any and all criminal convictions classified either as a felony or gross misdemeanor.

Undergraduate admission is available to qualified applicants for any of the four quarters of the academic year. All applicants must remit an application fee. Inquiries should be addressed to Undergraduate Programs, Admissions Office, Seattle University, Seattle, WA 98122-4460.

Special Consideration

Students showing exceptional promise may in some circumstances be admitted without strict adherence to minimum entrance requirements. Admission decisions in these cases are made by the provost and the university's admissions review board.

Seattle University offers admission without regard to race, religion, age, gender, sexual orientation, handicap, or national origin. It does so in keeping with the laws and regulations as promulgated by federal agencies and Washington state.

Seattle University does not discriminate on the basis of handicap, in conformity with section 504 of the Rehabilitation Act of 1973, in admission or access to its programs and activities, or in its employment policies or practices. The vice president for finance and administration is the employee designated by Seattle University to coordinate its effort to comply with section 504 of the Rehabilitation Act of 1973.

This constitutes the official notice called for in Section 504, No. 84.8, Paragraph a

Freshman Admission Requirements

Seattle University is committed to qualitative decision making based upon a review of applicants' backgrounds as a whole. Primary consideration is given to course selection and performance.

Preference in admission is given to entering freshmen who will have completed a **minimum** of 16 secondary units in core subjects to include:

- four units of English
- three units of college preparatory mathematics (typically algebra I, II, and geometry)
- three units of social science/history
- two units of laboratory science (three are preferred)

- two units of a foreign language
- two **approved** academic electives

Four units of mathematics and laboratory chemistry and physics are required for admission to engineering programs; for admission to nursing, two units of laboratory science are required, one of which should be chemistry.

The College of Arts and Sciences requires completion of one full year of a single foreign language for degree completion. College-level coursework must be taken if this requirement has not been completed in secondary school.

The middle 50 percent of enrolling freshmen typically have grade point averages between 3.2 and 3.9 (on a 4.0 scale). Admissions decisions take into consideration the strength of the academic program, individual course performance, and academic trend.

The General Equivalency Diploma (GED) may be accepted in lieu of a traditional secondary school diploma in some situations; typically a minimum of 58 in each section is required.

Applicants are required to submit scores from the American College Test (ACT) or the Scholastic Achievement Test I (SAT). Additionally, applicants must submit letters of recommendation from a teacher and a school counselor (three are recommended). Personal statements or essays are also required and are considered carefully during application review.

Applications

Application forms can be obtained by contacting the Admissions Office, Seattle University, Seattle, WA 98122-4460. Seattle University also accepts the *Common Application*, the *Uniform Washington State Application*, the *Catholic College Admission Association Application*, and *Peterson's Universal Application*. Students can also apply online: www.seattleu.edu.

Freshman Admission Procedures and Timetable

Financial Aid

Often the college application process coincides with completing the Free Application for Student Financial Aid (FAFSA). This form is usually available by November 14 for the following school year and should be submitted to the federal processor as soon *after* January 1 as possible. **Please Note that the FAFSA must be submitted by February 1 in order to be given priority consideration for Seattle University institutional funds.** Aid applications submitted after this date will be considered for any remaining funds. When completing the application it is important to remember to list Seattle University to receive this information. See Financial Aid section which follows for more information.

Freshman Admission

Freshman applicants are required to complete an admission application and submit it with the following:

- Official high school transcript
- Official ACT or SAT I score reports (these will be accepted if recorded on the official high school transcript)
- Recommendation form completed by a school counselor
- Essay or personal statement
- Non-refundable \$45 application fee

The deadline for priority consideration for fall quarter admission is February 1.

Notification for fall quarter begins after mid-January of the preceding year and continues as space is available. Students whose records do not provide sufficient evidence of the ability

to pursue baccalaureate college-level work may be notified that a final decision will not be made until additional information is received.

Fall quarter freshman applicants for admission should apply by February 1. Applications submitted later are considered on a space-available basis only. All admission credentials should be postmarked by February 1 for fall quarter, and no later than one month before the beginning of winter, spring, and summer quarters.

Advanced Placement

(Policies 75-16 and 75-17)

Entering students may seek advanced placement in college courses by taking the Advanced Placement (AP) tests of The College Board. More can be found about these tests from your secondary school counselor or the Educational Testing Service (ETS). At your request ETS will send test results directly to Seattle University. A score of three or better on an AP examination often earns college credit. Advanced placement or credit may also be granted on the basis of the subject examinations of the College Level Examination Program (CLEP) of the College Board. To receive course credit through CLEP, your official test results must be received by the Registrar's Office one month before the quarter you enroll.

International Baccalaureate

The university grants course credit and advanced standing for upper-level subjects in the International Baccalaureate program passed with a grade of 5 or higher. Subsidiary level courses are reviewed on a case-by-case basis and may earn advanced standing recognition. Depending on performance, diploma recipients may receive up to one full year of credit.

Early Admission

High school students with a grade point average of 3.3 or above (on the 4.0 scale) who are recommended by both their secondary school principal and their school counselor may be considered for enrollment after completing their junior year in secondary school. An admissions interview is typically required as well.

Placement Examinations

Placement tests in mathematics and foreign languages are administered by the respective departments during orientation. Entering freshmen have the opportunity to show the extent of their preparation, and the departments can determine the level at which entering freshmen begin college work.

Probationary Admission

Students accepted under probationary status must achieve regular status by the end of their first year or be dismissed from the university. Students on probation may be admitted to the school of their chosen area of study.

Running Start Program

(Policies 75-16 and 75-17)

Students who have participated in a Washington Community College Running Start Program must submit community college transcripts as well as secondary school records. Transfer credits will be evaluated according to usual guidelines. (See Transfer of Credit from Other Institutions.) They must fulfill all other freshman application requirements, including provision of either ACT or SAT scores.

The university will classify as first-time freshmen: a) all students who graduated from high school in the current year and have accrued 45 or fewer credits; and, b) students attending college for the first time or who have fewer than 20 credits, regardless of when they graduated from high school.

Freshmen transfers are those who have graduated in any year other than the current one and have accrued 21 to 44 credits.

Admission from Other Post-Secondary Institutions

(Policies 77-1 and 79-1)

A student who has established a satisfactory record at another accredited college or university may apply for admission with advanced standing at Seattle University. Applicants for transfer admission must:

1. Submit an application for admission, and an application fee of \$45, payable to Seattle University. (This fee is waived for applicants who have or will receive an associate of arts degree from a Washington state community college immediately prior to intended enrollment at Seattle University) Submit official copies of transcripts from each postsecondary institution attended. When applying for admission or readmission, failure to furnish all records from all post secondary institutions attended (regardless of whether attempted coursework was completed) places students under penalty of withdrawal of admission or immediate dismissal. The university has the option to declare credits not presented at the time of application as non-transferable.
2. Present a minimum 2.50 academic grade point average (or the minimum required by the specific school/college; consult appropriate sections of this bulletin) for post-secondary work attempted prior to transfer. Several programs, including those offered through the School of Nursing, and those of the Albers School of Business and Economics, require a minimal cumulative grade point average of 2.75. Probationary admission could be an option with a 2.50 to 2.25 GPA. No transfer applicant will be admitted with a grade point average below 2.25. Courses completed at C- (or 1.5) are transferable to fill core or electives, but unless graded C or higher, transfer courses cannot fill major requirements in many departments.
3. Transfer applicants who have completed less than 45 quarter or 30 semester hours of transferable credit at other postsecondary institutions must fulfill secondary school unit requirements for freshman admission. In such cases, an official secondary school transcript must be submitted also.

Transfer students suspended or dismissed at other institutions are ineligible for admission unless one calendar year has elapsed since dismissal or suspension. Admission may be considered at the end of this period. Two letters of recommendation are required in such cases.

When assessing records for admission, grades in non-credit courses are not counted. For work completed in postsecondary institutions in which academic standing is unknown/or for work with private teachers, admission and advanced credit is only granted upon examination. Examinations to establish credit for such work can only be taken after the completion of 15 credits in residence. (See Credit by Examination section of this bulletin.)

For guidance and registration, the academic evaluation unit in the Registrar's Office completes tentative evaluations of transfer credit at the time of admission. Evaluations are subject to the approval by the provost and the dean of the appropriate school. (See Transfer of Credit from Other Institutions in this bulletin for additional information.)

Other Admission Standings/Requirements

Special requirements apply for the following applicants:

Bilingual Students/Permanent Residents

Bilingual students and those who are permanent residents must submit Test of English as a Foreign Language (TOEFL) results if English is their second language, unless they have studied at U.S. high schools freshman through senior years and have Scholastic Assessment Test I (SAT) scores of 450 or higher or American College Test (ACT) English subscores of 22 or higher. All international applicants, however, must submit TOEFL results unless both coming from English speaking nations and having English as their first language.

Elder Audit Program

People age 60 and over may audit classes on a space-available basis with the permission of the instructor and the department chair. Details may be obtained at the Registrar's Office.

International Students

(Policy 76-6)

Specific admission requirements and procedures for international students are outlined in the university's undergraduate international student application form. These criteria differ from those applied to United States citizens.

Non-Matriculated Students

(Policy 82-2, as revised February, 1997)

Admission as a non-matriculated student is allowed for the purpose of post-secondary or post-baccalaureate study which is not intended to culminate in a Seattle University degree. Students must be in good standing at recognized colleges or universities. Students are required to complete a special application and submit an application fee. As they are not matriculated, these students do not qualify for financial aid or academic counseling.

Credit is awarded for successful completion of courses taken by non-matriculated students, however, those courses will not be applied toward a degree or certificate until the student has applied and been accepted to a program of study as a matriculated student and petitioned the appropriate dean requesting that said credits apply toward program requirements. Completion of courses does not guarantee admission into a program of study.

Not all courses are open to non-matriculants. During the fall, winter, and spring quarters non-matriculated students will be admitted to courses on a space available basis after all matriculated students have had the opportunity to register (i.e. two weeks before the start of classes). During the summer term, non-matriculated students may register when registration opens for the term.

Post-Baccalaureate Students

(Policy 82-2, as revised February, 1997)

Post-baccalaureate students seeking certificates, a second bachelor's degree, or graduate program prerequisite coursework must achieve an evaluated grade point average of at least 2.50 to be considered for admission. The evaluated grade point average is based upon the last 90 quarter credits of the bachelor's degree and any post-baccalaureate coursework.

Financial Aid

Seattle University is pleased to offer a variety of strategies and resources aimed at helping eligible students meet the costs of education. Approximately 70 percent of undergraduate students receive assistance through grants and/or scholarships, work-study opportunities, or through low-interest loans.

The amount and types of financial aid a student may receive is based on their demonstrated financial need, academic achievement, leadership accomplishments, talents, and other personal characteristics. There are primarily two types of financial aid: need based and non-need based. Need-based aid is awarded after a careful review of the families income and assets and generally is a grant, work study, or loan. Non-need-based aid is awarded to a student based on high school achievement, talents, or other characteristics, and generally is a scholarship.

Application Procedure

1. Apply and be admitted as a degree- or certificate-seeking student. Students who submit all admission materials by February 1, will be given priority consideration for financial aid.
2. Complete and submit the Free Application for Federal Student Aid (FAFSA) before February 1. Be certain to indicate the results should be transmitted to Seattle University by entering our Title IV code #003790 in the appropriate section.
3. Students selected for verification by the federal processor must submit copies of their 1999 tax returns. Parents of dependent students selected for verification must also submit a copy of their return.
4. Transfer students who will enroll winter or spring quarter must submit copies of financial aid transcripts from all schools previously attended.
5. Based on a review of the materials submitted, some students may be asked to provide additional documentation.
6. After a careful review of all materials, students will be sent an award letter indicating the types and amounts of financial aid they are eligible to receive. Students must respond within 30 days to this letter or their aid will be canceled. New students are required to provide a \$200 deposit to the Admissions Office by May 1 to secure their place.

Please Note: Students must reapply each year for financial aid. Continuing students are not awarded aid until all required documents have been received. To help facilitate the process, students and parents are encouraged to keep a file of all information submitted including a copy of the original FAFSA.

Eligibility for Federal Student Aid

Applicants for a Federal Pell Grant, Federal Perkins Loan, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Direct Stafford Loan, Federal Direct Parent Loan, or any other federal aid must meet the following criteria:

1. Demonstrate financial need.
2. Have a high school diploma, or a GED.
3. Enroll as a regular student in a degree or certificate program.
4. Be a U.S. Citizen or eligible non-citizen.
5. Maintain satisfactory academic progress as described later in this text.
6. Must not be in default on a student loan or obligated to repay federal aid.

Students with a bachelor's degree are not eligible to receive Federal Pell Grant or Federal Supplemental Educational Opportunity Grant funds. Those students enrolled in an undergraduate program less than half time are only eligible for Federal Pell Grants.

Deadlines

To be given priority for financial aid funding, students must submit the FAFSA by February 1. Funding will be awarded on a rolling basis, students who submit the FAFSA after February 1, will be awarded any remaining funding.

Anyone wishing any financial aid for the 2000-2001 academic year, should submit the FAFSA by February 1, 2000. Student's submitting data after February 1, 2000 will be considered on a funds available basis.

Students must complete the documentation required to support their application for financial aid according to the following schedule:

	Fall Quarter	Winter Quarter	Spring Quarter	Summer Quarter
To ensure funding will be available at the start of the quarter:	August 15	November 15	February 15	June 1
To receive any funding during the quarter:	November 1	February 1	April 15	June 30

* Summer quarter recipients must also be registered before summer funding will be awarded.

Financial Aid Programs

Seattle University's Financial Aid Office attempts to combine different types of financial aid programs to create a financial aid package. We are required by law to coordinate the various resources a student may receive from all federal, state, private, and institutional agencies. The strategies used to package financial aid acknowledge that the basic responsibility for financing an education resides with the student and their family. The university provides assistance to help meet the difference between the cost of education and the family's resources. A student's package can be a combination of federal, state, private, and institutional financial aid programs.

The maximum amount of all resources cannot exceed the cost of education established by the university. The cost of education is revised annually and includes tuition, room, board, books, supplies, transportation, and personal miscellaneous expenses. For need based recipients, financial aid cannot exceed demonstrated need. Demonstrated financial need is defined as the cost of education less the family's contribution.

Gift Aid Guarantee

Seattle University provides undergraduate financial aid recipients a **gift aid guarantee**. Continuing students should receive the same level of gift aid (grants and scholarships) each year provided they maintain satisfactory academic progress. Types and or amounts of individual grants and scholarships may vary, but the total dollars in gift aid awarded to a student should equal the amount received in the prior year.

Grants and Scholarships

Grants and scholarships are funds which do not need to be repaid. Grants are awarded based on the student's financial need, while scholarships are awarded based on academic or other criteria. Grants and scholarships are provided to assist with paying tuition charges. In addition to other criteria generally students must be enrolled full time each quarter in a degree program to be eligible. (Please review the Satisfactory Progress requirements outlined later in this text.) Scholarship recipients are expected to maintain a high level of academic achievement and in some cases are required to be involved in leadership activities on campus. It is, therefore, strongly recommended that scholarship recipients work no more than 20 hours per week while school is in session. Grants and scholarships are available from Seattle University resources to help undergraduate students obtain a bachelor's degree.

Institutional Awards

Sullivan Leadership Awards are available to incoming freshman who have superior academic achievements combined with active leadership demonstrated during high school. Applications are accepted during the fall of each year. During November applicants are invited to campus to participate in the first round of selection. Approximately 30 finalists are invited back during winter to present a speech and be interviewed by the selection committee. Six students each year are awarded a scholarship equivalent to tuition, room, and board.

Presidential, Trustees, Champion Scholarships are available for tuition to entering students who demonstrate high academic achievement. The Admissions Office reviews the student's application materials to determine eligibility. Awards range from \$5,000 to \$11,000. Scholarships are renewable provided the student maintains Satisfactory Academic Progress as defined later in this text.

Ignatian Scholarships are available to entering students who attended a Jesuit high school and demonstrate high academic achievement.

Transfer Trustee and Loyola Scholarships are available for tuition to transfer students who demonstrate high academic achievement. The Admissions Office reviews the student's application materials to determine eligibility. Awards range from \$4,000 to \$7,500. Scholarships are renewable provided the student maintains Satisfactory Academic Progress as defined later in this text.

Regent's Awards are available for tuition to entering students from underrepresented populations. The university created this award to help enrich the diversity of the student population.

Honors Scholarships are available for tuition to entering students enrolling in the Honors Program.

Bannan Scholarships are available for tuition to students in degree programs in the School of Science and Engineering. Transfer students and upper division continuing students are eligible to apply for this award. Applications are available in the Dean's Office in the School of Science and Engineering.

SU Grants are available to students who demonstrate financial need. To be eligible, a student must be full time and maintain Satisfactory Academic Progress. Award amounts range from \$500 to \$11,000 for the 2000-2001 academic year.

In addition, Seattle University is pleased to offer a variety of other grants and scholarships to students who participate in debate, ROTC or athletics, are involved in Seattle University's student government or newspaper, or demonstrate skill in music.

Endowed and Restricted Scholarships: Through the generosity of numerous benefactors and friends of the university, more than 100 scholarships are available to qualified students to help meet tuition expenses. In most cases, the applicant must have a minimum grade point average of 3.0 and be enrolled in a specific program. To be eligible students must be enrolled full-time. For most awards no application is required because each year the Financial Aid and Student Employment staff review all students to identify qualified applicants. For additional details contact the Financial Aid and Student Employment Office. Recipients are encouraged to send a thank you note to the donor in care of Seattle University's Development Office.

Federal and State Grants

Federal Pell Grants are available to undergraduate students who demonstrate financial need. This grant is intended to serve the neediest students.

Federal Supplemental Educational Opportunity Grant (SEOG) are available to students who qualify for the Pell Grant and have exceptional financial need. Grants range from \$300 to \$3,000 each year at Seattle University.

Washington State Need Grants (WSNG) are available to assist needy students who are residents of Washington State.

Educational Opportunity Grants are available to entering transfer students who have completed an AA or AS.

ROTC Scholarships—Army, Navy, and Air Force scholarships are available to students who attend Seattle University. For more information contact the following:

Army—Military Science Department, Seattle University (206)296-6430.

Navy—Professor of Naval Science, DU-40 University of Washington, Seattle, WA 98195. (206) 543-0170.

Air Force—Professor of Aerospace Studies, DU-30 University of Washington, Seattle, WA 98195. (206) 543-2360.

Veterans, Widows, War Orphans Education Assistance—Veterans (or spouses of deceased veterans) may receive educational assistance under terms of the GI Bill. For more details contact the Veterans Counselor in the Registrar's Office.

Veterans' Education Benefits—Programs of study at Seattle University are approved by the Washington State Higher Education Coordinating Board's State Approving Agency (HECB/SAA) for enrollment of persons eligible to receive educational benefits under Title 38 and Title 10 U.S. Code.

Student Employment/Work Study

Work study positions are available on campus and in the community to help students meet their educational expenses. Students are awarded work study as part of their financial aid package. A student selects a job from the listings available at the Financial Aid and Student Employment Office. Students are not guaranteed positions; however, the Financial Aid and Student Employment staff are available to assist students seeking to work. After being interviewed and hired, the student is paid for hours worked. Because students are compensated after working hours, work study funding is not available at the beginning of the academic year to pay their university bill.

Federal Work Study provides part-time employment to students in on-campus and off-campus community service positions. To qualify, a student must demonstrate financial need and is limited to working up to 20 hours per week.

Washington State Work Study provides part-time employment to upper-division students in positions with employers off campus. To qualify, a student must demonstrate financial need and is limited to working up to 19 hours per week. Priority consideration is given to Washington residents who complete their financial aid file by March 1.

Loans

Low-interest loans are an important way a student can invest in their future. Loans are awarded as part of a student's financial aid package.

Federal Perkins Loans are long-term, low-interest loan based on financial need. Students are awarded up to \$1,500 per year by Seattle University. No interest accrues and no payments are due until a borrower ceases to be enrolled at least half-time. The interest rate is fixed at 5% and repayment occurs over 10 years. Deferment and cancellation options are available.

The Federal Direct Education Loan programs offer long-term, low-interest loans awarded to students or parents. After Seattle University determines the eligibility for a Direct Loan, a promissory note is forwarded to the student or parent. The promissory note is returned to Seattle University's financial aid office with any other required documents. Generally, Federal Direct Education Loans are disbursed to the school in equal payments based on the number of terms as student is enrolled during the academic year. If a student plans to attend three terms the loan will be disbursed in three equal payments. Student borrowers must attend an entrance interview prior to receiving their first student loan.

The Federal Direct Stafford Loan program has two types of loans available: subsidized

Direct Stafford Loans and unsubsidized Direct Stafford Loans. Subsidized Direct Stafford Loans are need-based loans made to students. The interest rate is based on the 91-day T-Bill plus 3.1% not to exceed 8.25%. While a student is enrolled at least half time interest does not accrue and principal payments are not required. Repayment begins six months after a student ceases to be enrolled at least half time. Freshmen may receive up to \$2,625 per year; sophomores up to \$3,500 per year, and juniors and seniors up to \$5,500 per year. The student will be charged a fee of approximately 3% which will be deducted from each loan disbursement. Unsubsidized Direct Stafford Loans are non-need-based loans which have many of the same terms and conditions as the Subsidized Direct Stafford Loan. However, under this program, the student borrower is responsible for interest that accrues while they are enrolled in school. For dependent students the annual limits of the subsidized and unsubsidized loans cannot exceed the amount listed above. Independent students are eligible to borrow an additional \$4,000 for freshmen and sophomores, or \$5,000 for juniors and seniors. The aggregate maximum students may receive is \$23,000 for undergraduates and \$65,000 for graduate students.

Federal Direct Plus Loans are non-need-based loans available to the parents of enrolled dependent students. The interest rate is variable with a maximum of 9%. Repayment begins 60 days after the loan is disbursed.

Federal Nursing Loan funds are available each year in limited amounts. Awards are made to junior, senior, and post-baccalaureate nursing students. The terms of these Nursing Loans are similar to the Perkins Loan.

Seattle University Loan is a "non-need-based" loan available to student borrowers. The interest rate is variable (for the 1999-2000 school year, it was 8.21%). Interest accrues while you are in school. Repayment of the loan begins four months after you leave school or drop below half-time enrollment. A credit check will be performed by the lender (First Marblehead, Bank of America). Students with a good credit history or with no credit history will qualify. There is a 5% fee that will be added to the loan amount borrowed. Prior to receiving these funds, you must sign a promissory note, which will be sent to you by the lender.

Gate Family Loan is a "non-need-based" loan available to parent borrowers. The interest rate is variable. Interest accrues while you are in school. Repayment of the loan begins four months after you leave school or drop below half-time enrollment. A credit check will be performed by the lender (First Marblehead, Bank Boston). There is a 5% fee that will be added to the loan amount borrowed. Prior to receiving these funds, your parents must sign a promissory note, which is available from the Financial Aid and Student Employment Office.

Satisfactory Academic Progress Policy

To be eligible for financial aid at Seattle University, a student must maintain **satisfactory academic progress** which includes: 1) maintaining a minimum grade point average, 2) completing a minimum number of credits, and 3) completing a degree or certificate within a reasonable period of time. This requirement applies to the student's entire period of attendance at Seattle University, even though financial aid may not have been received. In addition, to the Financial Aid and Student Employment Office's satisfactory progress requirements, students must meet the progress requirements defined by their school or program outlined in the University's Graduate, Law School and/or Undergraduate Bulletin of Information.

Satisfactory progress is reviewed at the end of each Spring quarter. Students will be notified by the Financial Aid and Student Employment Office, if they have not maintained satisfactory progress, **however, it is the student's responsibility to monitor his/her own progress.**

Undergraduate Need-Based Aid Requirements

Financial aid awards are based upon the student's anticipated enrollment status. The enrollment status for a student's award (which appears on the Enrollment Status line of the

Award Letter) determines the minimum number of credits that the student must complete in order to receive and remain eligible for the funding listed on the award letter. Students must meet a minimum credit requirement each quarter and during the full academic year as defined in the chart below:

UNDERGRADUATE NEED-BASED CREDIT COMPLETION REQUIREMENTS

Enrollment Status	Minimum per quarter	Minimum per Year
Full-time	12	36
3/4 time	9	27
1/2 time	6	18
Less than 1/2 time*	all credits attempted	all credits attempted

*This enrollment status applies to the Federal Pell Grant Program only.

Stafford Loan borrowers who drop below half-time enrollment status at any time will have their remaining loan canceled. They will need to reapply for the following quarters if additional loan funds are desired.

Alaska State Loan borrowers must successfully complete 12 credits per quarter .

WASHINGTON STATE NEED GRANT and WASHINGTON STATE WORK STUDY recipients must complete the number of credits each term for which they were awarded or they will be placed on probation. Failure to complete at least 50% of the credits attempted each quarter will result in the cancellation of subsequent disbursements. Satisfactory progress for State Need Grant recipients is monitored at the end of each quarter.

Incomplete grades, Withdrawals, Failed Classes and Audits do not count as complete, earned credits.

While some Federal and State aid is available to students enrolled less than full-time, Institutional grant recipients must be enrolled at full-time status each quarter to receive the funds.

Undergraduate Need-Based Minimum Grade Point Average Requirements

Students must maintain a cumulative grade point average of 2.0 or greater. Scholarship recipients must maintain a higher grade point average defined below.

Undergraduate Need-Based Maximum Time Frame Requirements

Students must complete their degree requirements within a reasonable and normal period of time. Students are eligible to receive federal and state financial aid until they have 1) attempted a maximum of 270 credit hours, or 2) completed all the course work to receive their degree. Students are eligible to receive institutional grants for four academic years. Transfer students will be eligible for institutional funds based on the class they are assigned upon evaluation by the Registrar's Office. (i.e. if they are assigned the class level of Junior, they will be eligible for institutional aid for two academic years).

Attempted credits are defined as: the number of enrolled credits as of the tenth day of each term attended at Seattle University, plus the number of accepted transfer academic credits. Incomplete grades, withdrawals, and failed classes do count toward maximum credits attempted. A repeated course will be counted as an attempted course each time the course is taken.

ADDICTION STUDIES CERTIFICATE STUDENTS are eligible to receive financial aid until they have attempted 39 credit hours.

Academic Scholarship Requirements

Undergraduate Academic Scholarship Completion Requirements

Enrollment Status	Minimum per quarter	Minimum per Year
Full-time	15	45

Students receiving Seattle University academic scholarships including the Sullivan Leadership Award, Presidential, Trustees, Loyola, Bellarmine, Bannan, Campion and Ignatian **must complete a total of 45 credits** at Seattle University for the academic year. Students must be enrolled full time each quarter (i.e. 15 credits) to receive the scholarship funds.

REGENT'S AWARD recipients must complete 36 credits at Seattle University each academic year.

Undergraduate Academic Scholarship Minimum Grade Point Average Requirements

Academic Scholarship recipients must maintain a **3.0 cumulative GPA** each academic year to maintain scholarship eligibility.

REGENT'S AWARD recipients must maintain a **2.0 cumulative GPA** each academic year to maintain award eligibility.

Undergraduate Academic Scholarship Maximum Time Frame Requirements

Students must complete their degree requirements within a reasonable and normal period of time. Students who receive the Sullivan Leadership Award, Presidential, Trustees, Loyola, Bellarmine, Bannan, Campion, Ignatian, and Regents award are eligible to receive Academic Scholarships for four academic years. After four years it is expected the recipient will have completed all course work to receive their degree.

TRANSFER SCHOLARSHIP recipients will be eligible to receive institutional scholarships based on the class standing they are assigned upon admission and evaluation by the Registrar's Office. (i.e., a sophomore transfer will be eligible for three academic years).

Graduate/Professional Students

Graduate/professional student must meet the same satisfactory progress requirements as the undergraduate students, with the following exceptions:

- 1) Minimum Grade Point Average—Each graduate program monitors the grade point average of its students. In general, students must maintain a minimum grade point average of 3.0.
- 2) Minimum credit requirement is the following:

Graduate Need Based Credit Completion Requirements

Enrollment Status	Minimum per quarter	Minimum per Year
Full-time	8	24
3/4 time	5	15
1/2 time	3	9

Stafford Loan borrowers who drop below half-time enrollment status at any time will have their remaining loan canceled. They will need to reapply for the following quarters if additional loan funds are desired.

Alaska State Loan borrowers must successfully complete 9 credits each term.

Incomplete grades, withdrawals, failed classes and audits do not count as complete, earned credits.

Law School Students should refer to the *Law School Bulletin of Information* for satisfactory progress requirements.

3) Maximum Time Frame—Graduate/Professional students must complete their degree requirements within a reasonable and normal period of time. Students are eligible to receive federal and state financial aid until they have 1) attempted a maximum of 150% of the credits required for their degree, or 2) completed all the course work to receive their degree. Attempted credits are defined as: the number of enrolled credits as of the tenth day of each term attended at Seattle University, plus the number of accepted transfer academic credits. Incomplete grades, Withdrawals, and Failed Classes do count toward maximum credits attempted

Reinstatement of Eligibility Options

Students who are no longer eligible to receive financial aid because of lack of satisfactory progress have the following options to become reinstated:

- 1) Students may submit a letter of appeal to the Financial Aid Appeal Committee if they have extenuating circumstances. Letters of appeal will be reviewed for circumstances beyond the student's control which prevented the student from maintaining satisfactory progress. If the appeal is denied, the student will need to follow one of the other steps below for reinstatement.
- 2) The student will need to complete successfully a term of study (meet the minimum credit requirement and grade point average for the term) without financial assistance from Seattle University. The student must notify the Financial Aid and Student Employment Office once this course work is complete. If this course work is completed at another college, the student must provide the Financial Aid and Student Employment Office and the Registrar's Office with an official transcript from that institution. The course work must be transferable and must be completed with a minimum 2.0 grade point average.
- 3) The student may choose to attend the summer quarter (without financial aid except work study and SU Loan) immediately following the academic year in which the student did not meet satisfactory progress requirements.

If the student needs to take classes to meet the minimum credit requirements, the student will only need to complete successfully (with a minimum 2.0 grade point average) the credits necessary to make up the deficit which caused the termination of eligibility.

If the student's cumulative grade point average is below the minimum, the student must earn adequate grades to bring the cumulative grade point average back to the required level.

- 4) Any student who has reached the limit of the maximum time frame and needs additional time to complete his/her degree, may submit a letter of appeal to the Financial Aid Appeal Committee for an extension. The appeal should explain why the degree could not be completed within the time frame allotted and what additional time will be needed to complete the degree. The student will need to attach the Maximum Time Frame Appeal form available from the Financial Aid Office, and completed by his/her advisor to substantiate the appeal.

Note: Financial Aid reinstatement awards are based on available funds. Therefore student may not receive their original financial aid award.

Refunds and Repayments

This text describes the process used to refund financial aid including Title IV federal funding. For complete information on the refund of tuition, see the Refund section under Tuition and Fees. It should be noted that Seattle University's policy governing the amount of tuition refunded based on the length of time the student has attended is always more favorable to the student than the minimum requirement described in the federal refund policy. Neither our accrediting agency nor our state have an approved refund policy. Seattle University's refund policies follow the federal refund requirements.

Partial Changes to Enrollment

When a student drops courses during the published dates during which tuition, room, and

board can be refunded to the student, and the student is also receiving financial aid, an adjustment to the student's record must occur. A careful review of the total cost for that quarter and the aid which has been awarded to the student is done. The tuition amount used is adjusted downward by the amount of tuition refunded. If that creates a situation where the student is receiving financial aid funds in excess of their new documented need, the financial aid for the quarter (or in some cases for subsequent quarters) can be adjusted. Specifically, in those cases when a student's documented need prior to the refund has been fully met by financial aid funds, some adjustment to financial aid occurs.

Complete Withdrawals

When a student withdraws from all courses during the published dates during which tuition, room, and board can be refunded to the student, and the student is also receiving or has received financial aid for that quarter, an adjustment to the student's record must occur.

For those students who have Federal and/or State financial aid, Seattle University calculates the amount of financial aid that must be refunded to its source, based on the length of time the student was enrolled for the quarter. How a refund is calculated varies based on the student's individual circumstances. For detailed examples of this calculation, contact the Financial Aid and Student Employment Office.

All students who withdraw from their courses before the first day of classes receive 100 percent of their tuition refunded, and all financial aid is refunded to the source.

When calculating a refund for those students whose total charges are not covered entirely by financial aid and who have not paid the difference to the university, Seattle University must include that unpaid amount in the refund calculation used. In some cases, the inclusion of the unpaid difference may result in a student still owing some charges to the university.

When a refund is due, the university is required to return financial aid in the order following:

1. Unsubsidized Federal Direct Stafford Loan
2. Subsidized Federal Direct Stafford Loan
3. Federal Direct Plus Loan
4. Federal Perkins Loan
5. Federal Pell Grant
6. Federal Supplemental Educational Opportunity Grant
7. Other Title IV aid programs
8. Other Federal Sources of aid
9. State, Private, or Institutional Aid
10. Student

Tuition and Fees

Tuition Rates 2000-2001

Regular Courses (fall, winter, spring)	\$378 per credit hour
Full-Time Student Annual Tuition	\$17,010
45 credit hours per year (15 per quarter). Additional credit hours will be extra.	
Culture and Language Bridge (CLB)	\$378 per credit hour
Auditors Tuition	\$119 per credit hour

A confirmation deposit of \$200 is required of all newly admitted undergraduate students. This deposit will be retained by the university until the student officially withdraws or graduates from Seattle University.

Laboratory Fees 2000-2001 (per course)

Nursing 202, 306	\$55
Nursing 329, 339, 349, 411, 413 (per credit)	\$35
Nursing 308, 309, 311, 326, 385, 401, 403	\$155
Nursing 423, 425	\$245
Private Music Lessons	\$75
Psychology 304, 306	\$70
Science and Engineering Laboratory Courses	\$70

Other Fees (non-refundable) 2000-2001

Graduate application — includes post-baccalaureate and non-matriculated	\$55
Undergraduate application — includes post-baccalaureate and non-matriculated	\$45
Credit by Examination — per credit hour	\$75
Identification Card — Loss/Replacement	\$25
Incomplete Fee — per course	\$50
Late Payment (see details later in this section)	\$100
Matriculation — undergraduate and graduate	\$75
Official Transcript — Same day service request	\$25
Validation of Field Experience — per credit hour	\$75

Graduate tuition and fee rates are published in the *Graduate Bulletin of Information*.

Residence Charges 2000-2001

Room Rates:	Qtr	Academic Yr
Double Occupancy	\$1313	\$3939
Single Occupancy	\$1762	\$5286
Board Plans:		
Plan A	\$712	\$2136
Plan B	\$603	\$1809
Plan C	\$494	\$1482

Bellarmino and Xavier Hall residents are required to purchase a meal plan. A plan is optional for other residents. Campion students can use existing kitchen facilities and may choose not to purchase a plan. For additional information contact Residential Facilities (206) 296-6274.

Student Accounts Office

The Student Accounts Office offers the following services: student account statements, receipt of student payments, answers to questions about student accounts, disbursement of authorized financial aid, signing of Federal Perkins, Nursing and institutional loan documents, monitoring the repayment process and collection of Federal Perkins, Nursing and institutional loans and delinquent student accounts, receipt and processing of time sheets for student payroll, and issuing of student payroll checks. The normal window hours are 8:30 a.m. to 6 p.m., Monday and Tuesday; 8:30 a.m. to 4:30 p.m., Wednesday and Friday; and 9 a.m. to 4:30 p.m. Thursday.

Tuition and Fees

Payment of tuition and fees includes library and health service fees, student newspaper, student organization allotments, building fund, and admission to athletic events. International students will automatically be charged for medical insurance. An insurance waiver can be obtained from the International Student Center upon proof of health/medical insurance coverage.

Official Withdrawal

Until a student officially withdraws from a class with the Registrar's Office, it is the student's responsibility to pay for all fees in full whether or not the student attended the course(s).

The date a completed withdrawal form is received in the Registrar's Office is considered the effective date of withdrawal by the registrar. After these changes, call the Controller's Office at (206) 296-5880 for an updated account balance.

Tuition Due Dates 2000-2001

Tuition and fees are due and payable on or before:

Fall quarter	September 15
Winter quarter	December 15
Spring quarter	March 15
Summer quarter	June 15* Variable

Payment Options

- A) **Pay by mail:** Send your payment to Seattle University, Student Accounts Office, P.O. Box 24064, Seattle, WA 98124-0064. Please write your student ID# on your check.
- B) **Pay by phone** with your VISA or MASTERCARD. Call (206) 296-5898 (24-hour credit card line only) or call (206) 296-5880 between 9:00 a.m. and 4:30 p.m. (Mon.-Fri.).
- C) **Pay by drop-box:** Place your check in the drop-box located by the Student Accounts Office door, available 24 hours a day.
- D) **Pay in person** at the Student Accounts Office, between 8:30 a.m. and 6 p.m. Mon-Tues, or between 9:00 a.m. and 4:30 p.m. Wed-Fri.
- E) **Make payment arrangements** with the Student Accounts Office:
 - Plan A:* Annual arrangements may be made with Academic Management Service (AMS) for monthly payments. Call (800) 635-0120 for information on AMS. (Deadline to apply is September 15.)
 - Plan B:* 1/3 of tuition balance plus 1% service fee by the tuition due date; 1/3 in 30 days; remaining balance due in 60 days.
 - Plan C:* 1% service fee plus balance of account in 30 days.

Interest continues to accrue on the unpaid balance on both Plan B and C until it is paid in full. Call (206) 296-5899 for information on university payment plans.

Seattle University reserves the right to change its charges at any time without previous notice. If you have any questions regarding your account, please call the Student Accounts Department at (206) 296-5880 between 9 a.m. and 4:30 p.m. (Mon.-Fri).

Late Payment

A late fee of \$100 (one time per term) and interest of 1% per month will be assessed on any unpaid balance remaining after the tuition due date. Exceptions to this policy will only be made if:

1. Payment arrangements for the term's charges have been made with the Student Accounts Office by the term's tuition due date. (If the terms and conditions of the plan are not met, all applicable late fees will be applied retroactively.)
2. Institutional error and /or delays in financial aid application of funds are a result of institutional error.

Students are responsible for insuring that all awarded financial aid is applied to their account by the first class day of the term. This includes endorsing co-payable grant/scholarship checks and signing all required loan documents.

A service fee of \$20 will be charged for all checks not honored by the bank and returned unpaid to Seattle University. If the returned check was for tuition and charges are still outstanding after the tuition due date, a late fee will also be assessed to the student's account.

Past-Due Accounts

Failure to pay in full all tuition and other fees for any quarter (or session) will result in a hold being placed on the academic transcript and will prevent further registration until resolved/paid in full. Delinquent accounts may be referred to a commercial collection agency and may be reported to national credit bureaus. All costs, expenses and fees (including, but not limited to attorney fees, court costs and other out-of-pocket expenses) incurred by the university in collecting or attempting to collect a past-due account are the responsibility of the student, and shall be charged to the student's account.

Refunds

Refunds are based on the number of calendar days(excluding official campus holidays) from the first class day of the term until the official date of withdrawal or reduction in credit load occurs. **The official date is considered to be the date the student submits the withdrawal or change form to the registrar.** See the quarterly schedule of classes for specific dates. A refund to a financial aid recipient is applied first to the student's financial aid source(s). The balance, if any, is remitted to the student. Loan proceeds are returned directly to the lender. Financial aid recipients will, therefore, in all likelihood, not receive refunds.

Petitions for tuition adjustment and fee waiver will be approved only to correct university error.

Overpayment of Account (credit balance)

Credit balances created by financial aid, tuition adjustments, or overpayment will be remitted to the student. Payment will be made by check or credit card, depending on the student's original method of payment. The credit will be mailed to the student or, upon request, may be picked up at the Student Accounts Office. In most cases, refunds are mailed the next business day.

Credit balances from financial aid are not available to students until after 3 p.m. on the first class day of each quarter. To receive a credit check on that day, students must request the

check from the Student Accounts Office at least three business days before that date. (See the Quarterly Schedule of Classes: Tuition and Fee Payments/Overpayment of Account for the specific deadline.)

Please Note: Federal regulations effective 7/1/97 require Seattle University to forward Title IV financial aid resulting in a credit balance to the student within 14 days. Therefore, if a check is not requested by the student, it will be generated and mailed to the student by the Student Accounts Office.

Academic Policies

Program of Study

Students, with the help of their academic advisers, are responsible for satisfactory completion of their program of study.

Students should not rely on oral representations of degree requirements or waivers thereof; they should obtain information from the designated level of authority and see that all agreements are entered in writing in their official academic file in the Registrar's Office.

The Academic Assembly has discretionary powers for all cases not covered by the rules and regulations listed in this section.

The enrollment and graduation of each student, the awarding of academic credits, and the granting of any award or degree are strictly subject to the disciplinary power of the university.

The university reserves the right to cancel any class that does not meet the required minimum enrollment.

The university reserves the right to change any requirement and to ask a student to withdraw at any time.

Regulations in this bulletin are supplemented by policy memoranda that set forth policy in greater detail. References to applicable policy statements are noted parenthetically. Copies of these policy memoranda may be obtained from the Registrar's Office.

Academic Conduct

There are two documents which govern student academic conduct: the Academic Honesty Code and the Academic Grievance Procedure. Both are published in the *Student Handbook* and students are responsible for knowing them. Individual schools may have policies that further specify the Academic Honesty Code; students should also consult their school policy.

Academic Terms

Accredited—Certified as fulfilling standards set by regional or professional accrediting agencies. Indicates that course work is generally transferable to other colleges and universities. The university's accreditation is listed in the general information section of this bulletin.

Advanced Placement—The university encourages advanced placement of students entering from high school through approved departmental examinations or by the Advanced Placement Examination of the College Entrance Examination Board.

Adviser—A member of the faculty or staff designated to assist a student in planning a program of study.

Auditor—A student who has permission to attend a regular course on a non-credit basis. See audit policy following.

Certificate—A document awarded by the university and issued by the registrar's office upon completion of a series of courses in a professional specialty.

College—An academic division within the university in which academic departments reside.

Core Curriculum—A program of liberal study which is the foundation of Seattle University's undergraduate program.

Corequisite—A course which must be taken in the same quarter with another specified course.

Credit by Examination—Examination for advanced credit in courses offered by the university for work done in private study or work not transferable to the university. Forms for approval of credit by examination are available in the Registrar's Office.

Credit Hour—The unit by which the university measures course work. One credit hour is awarded for a class meeting 50 minutes a week over the period of a quarter; in laboratory and activity courses, two or more hours a week over a period of a quarter are required.

Curriculum—An established program of study leading to a degree in a particular subject field.

Dean's List—A quarterly report listing undergraduates who have completed 12 or more graded credits at Seattle University with a term grade point average of 3.50 or higher.

Degree—An award by the university upon completion of a program of study.

Department—An instructional or administrative division of a school or college within the university that concentrates on a specific subject field.

Elective—A course chosen by a student that is not a requirement in the program of study or in the core curriculum.

Full Time—For academic reporting purposes, 12 credits is full time for undergraduate students and eight credits is full time for graduate students.

Grade Point Average (GPA)—An average computed on the basis of numerical values assigned to grades; the grade point average is equal to quality points (numerical point value multiplied by the credit value for each course) divided by credits attempted.

GPA, Cumulative—The grade point average, based on all Seattle University work. Transfer credit is not included in the cumulative GPA.

GPA, Major—The grade point average based on all Seattle University work used to complete course and credit requirements of the major, as well as the supporting courses in allied fields specifically required by the program even if courses also fill core requirements. Transfer credit is not included in the major GPA.

Intersession—The final four-week session of summer quarter, usually from mid-August to mid-September.

Leave of Absence—A formally petitioned and approved absence from the university for a maximum of four consecutive quarters. See policy following.

Major—A principal field of study. Majors are described in the school and college sections of this bulletin.

Matriculate—Enrollment at the university for the first time to pursue a degree, or professional, or post-baccalaureate program.

Minor—A secondary field of study. Minors are described in the school and college sections of this bulletin.

Non-Matriculated—An admission category that includes students not pursuing a degree or certificate or a prescribed set of prerequisites for entry into a specific Seattle University degree program. Also includes those admitted for specific short-term educational programs. See policy following.

Part Time—For academic reporting, a program of fewer than 12 quarter credits is considered part time for undergraduate students; three-quarter time is 9, 10, or 11 credits; half time is 6, 7 or 8 credits; less than half time is 4 or 5 credits; one-quarter time is 1, 2, or 3 credits. For graduate students, 8 credits is a full-time load; three-quarter time is 5, 6, or 7 credits; 3 or 4 credits is a half-time load; and 2 credits is one-quarter of a full course load.

Placement Tests—Tests in specific fields, such as mathematics and foreign languages, given to entering students to determine their level of achievement for placement in college courses.

Post-Baccalaureate Undergraduate—A student with an acceptable baccalaureate degree admitted to the university to pursue a second bachelor's degree, an undergraduate certificate, or a prerequisite program of study. Eligible to enroll in courses numbered 100-499 only.

Prerequisite—A course which must be completed before a student may register for a more advanced course.

President's List—A quarterly report listing undergraduates who have completed 12 or more graded credits at Seattle University with a term grade point average of 3.90 or higher.

Probation—Status resulting from academic performance below the minimum university requirement. See policy following.

Provisional Student—One who is admitted by special action with an entrance requirement unsatisfied. Enrollment beyond the first quarter is contingent upon the satisfaction of that requirement.

Quarter—The term of instruction at Seattle University. There are three quarters in the regular academic year: fall, winter, and spring. An additional term, summer quarter, extends from late June through early September and includes an intersession in some departments.

Readmission—Procedure whereby a student who has been absent from the university for four consecutive quarters or more requests permission to reenroll.

Registration—Official enrollment in the university through which a student sees an adviser, selects courses, and secures a place in each of those courses.

School—An academic division within the university in which academic departments reside.

Transcript—A copy of the student's permanent academic record at Seattle University.

Transfer Credit—Credit completed at another accredited college or university and accepted by Seattle University toward a specific program of study.

Transfer Student—One who is admitted to Seattle University having previously completed acceptable credit at another college or university.

Withdrawal—Official notification to the university by a student that he or she will not complete a course. Withdrawals are filed with the registrar within published deadlines.

Attendance Requirement

Attendance may be an essential and intrinsic element of the educative process. In any course in which attendance is necessary to the achievement of a clearly defined set of course objectives, it may be a valid consideration in determining the student's grade. While there is no all-university regulation requiring class attendance, it is the responsibility of the instructor to state the relevance of attendance at the beginning of each course.

Auditing a Course

(Policy 97-7)

Students may be enrolled as auditors in undergraduate courses (graduate courses may not be audited) upon payment of the usual fees and audit tuition. Ordinarily, only lecture courses may be audited; however, auditability of individual courses is determined by the chair of each department. Auditors must choose this grading option by the last day to add/drop each quarter and will not receive college credit for the course. A student cannot later establish credit in an audited course by means of a challenge examination, through the petition process, or by payment of additional tuition. Class participation is at the discretion of the instructor. It is the responsibility of the auditor to meet with the instructor at the beginning of the course to determine the level of participation permitted by the instructor. In all cases, students who register for credit and who pay regular fees will have priority over those who register on an audit basis.

The alumni audit program is available to alumni through the Alumni Relations Office and information regarding Elderaudit may be obtained from the Registrar's Office. Neither of these two programs provides a student with a permanent record of the audited course.

Change of Major

To transfer from one school of the university to another, or from one major to another, a student must obtain a change of major form from the registrar, notify the former department by obtaining the chairperson's signature and present the change of major form to the new department chairperson for approval. Students must meet the minimum entry requirements of the new major. They must also satisfy any additional requirements of the new school or college.

in order to earn the new degree. The approved form is returned to the registrar by the department and the student's record will be adjusted to show the new major.

Second Major

(Policy 76-2)

A student may earn a double major by completing core requirements for the degree sought and by fulfilling all requirements of each of the two major programs.

There is not an additional number of degree credits required, providing all requirements for both majors are completed when the degree is posted. Because only one bachelor's diploma is awarded, the student selecting two majors which culminate in two different degrees must decide which of the two diplomas is to be awarded and must fulfill requirements for the school or college which houses that program. The two majors are both noted on the student's transcript.

For second or concurrent degrees, see bachelor's degree requirements under Graduation/Commencement in this section.

Classification of Students

(Policy 82-2)

Undergraduate students are classified as follows:

Freshman	0 to 44.9 credits completed toward degree
Sophomore	45 to 89.9 credits completed toward degree
Junior.....	90 to 134.9 credits completed toward degree
Senior	135 or more credits completed toward degree

Other students are classified as follows:

Graduate—Students admitted for a master's, post-master's, graduate certificate, education specialist or doctoral degree program.

Non-Matriculated—An admission category that includes both graduate and undergraduate students not pursuing a degree or certificate or a prescribed set of prerequisites for entry into a specific Seattle University degree program. Also includes those admitted for specific short-term educational programs, (e.g. Matteo Ricci College or the Department of Military Science). See non-matriculated status in following pages.

Post-Baccalaureate Undergraduate—A student with an acceptable baccalaureate degree admitted to the university to pursue a second bachelor's degree, an undergraduate certificate, or a prerequisite program of study. Eligible to enroll in courses numbered 100-499 only.

Concurrent Enrollment at Two Colleges

(Policy 75-6)

Seattle University regulations require undergraduate students to seek written permission on a "transfer verification form" to be enrolled simultaneously at another institution. Credits completed at a second institution are transferable in limited circumstances when, prior to enrolling elsewhere, a form authorizing dual enrollment is approved by the dean. These limited circumstances include: 1) When a student would significantly benefit from a course not offered at Seattle University but available at another institution; 2) when, because of infrequency of a particular offering, taking the course at Seattle University would unreasonably delay graduation, a delay which could be avoided by dual enrollment, and 3) during a one-quarter transition when a student first transfers to Seattle University while still completing course work at the institution from which he or she is transferring.

Course Numbering System

The course numbering system at Seattle University is as follows:

- 001 to 099 are courses which do not count toward degree requirements
- 100 to 199 are freshman courses
- 200 to 299 are sophomore courses
- 300 to 399 are junior courses
- 400 to 499 are senior courses
- 500 to 699 are graduate courses (graduate standing is required)
- 900 to 999 are professional development courses

Courses numbered 100 to 299 are "lower division" courses and those numbered 300 to 499 are "upper division."

Credit by Examination

Examinations for credit in undergraduate courses offered by the university may be taken by a student for work done in private study or on subject matter taken at a non-accredited college or university, with the following restrictions:

1. Students must be currently registered at Seattle University.
2. No student may take an examination in a course in which he/she is currently registered or has taken in any previous quarter.
3. The maximum number of credits obtainable by such examinations is 30, of which not more than 15 may be obtained in one subject matter field. All credits obtained by examination will be counted as extension credit and included in the maximum 45 extension credits allowed.
4. No credit will be granted unless the applicant has earned a minimum of 15 resident credits with a minimum grade point average of 2.50.
5. No student may earn credit by examination in subject matter more elementary than that for which he/she is currently enrolled (attending) and/or for which credit has previously been received .
6. No student will be permitted to repeat an examination.
7. A maximum of 15 credits may be earned through credit by examination in a single term. Exceptions are granted only for NLN examinations in nursing courses.
8. Credit by examination is not granted for lower-division foreign language courses in the student's native language.
9. Students who wish to qualify for credit by examination must obtain the appropriate form from the registrar, apply to the dean, and controller for approval.
10. No graduate credit is given by examination.
11. Nursing students who are licensed RNs may, under special circumstances, earn credit by examination for courses specified in Policy 85-1.
12. The grade will be posted CR (credit) or NC (no credit) and will have no effect on the grade point average. The minimum achievement level for receiving credit will be C. Core requirements may be satisfied through credit by examination and graded CR in this case.
13. The student does not formally register for the course and the examination is not considered part of the student's credit load.

Credit Load

The normal load for undergraduates is 15 credits per quarter although a minimum of 12 credits is considered full-time. No student may carry an excess of 18 credit hours without permission from the dean of the school, except in the School of Science and Engineering, where 21 is the maximum.

Students on academic probation may be required by the dean of their school to carry less than the normal credit load.

Examinations

Examinations in all courses are regularly held at the middle and end of each quarter, and at such other times as the instructor may determine. Absence from an announced written examination is excusable at the discretion of the instructor and subject to review by the dean. Students absent from a scheduled examination without justifiable cause will receive a failing grade for the examination.

Forgiveness Policy

(Policy 77-6)

Former Seattle University students with poor academic records may resume their studies without the encumbrance of previously earned poor grades. After being absent from school for at least eight years, former Seattle University undergraduate students may apply for forgiveness at the time of readmission or during the first quarter resumed at Seattle University. For further information consult the Registrar's Office.

Grade Changes

Errors in grades must be reported within six months of the date of issue of grade reports. Once a grade is recorded it can be changed through a request of grade change form, which is completed by the instructor and countersigned by the department chair and dean of the school.

Grading System

Since fall 1996 the university has used the following system of grading to indicate the level of individual student achievement. Each letter grade has a quality point value assigned for the grade achieved. The quality point value is assigned to each letter grade as follows:

A	4.0 Superior performance
A-	3.7
B+	3.3
B	3.0 Good performance
B-	2.7
C+	2.3
C	2.0 Adequate performance
C-	1.7
D+	1.3
D	1.0 Poor performance
D-	0.7
F	0.0 Failing (formerly E)
LP	Language - Prepared
LU	Language - Unprepared

The grades of CR, HW, I, LP, LU, M, N, NC, P, Q, R, W, Y, YW, or Z have no quality point value.

CR/F—Mandatory Credit/Fail

Music practice courses, some field experiences, internships, independent study in the Albers School of Business and Economics, some graduate courses, and other courses so designated by individual departments are only graded credit (CR) or fail (F). When passed with the minimum acceptable standard of D- on the undergraduate level and C on the graduate level, the course will be graded CR and credit will be granted. There will be no effect on the grade point average. Should the student fail to satisfy the instructor's minimal expectations, the

course will be graded F and will be included in the computation of the grade point average.

To qualify for graduation with undergraduate honors, a minimum of 90 credits must be completed at Seattle University graded A through D-. Credits from mandatory CR/F courses will not count toward the 90 minimum unless the courses are specifically required by the major, in which case a student will be considered for honors with a minimum of 80 graded credits.

CR/NC—Credit/No Credit

The CR/NC grading mode is reserved for undergraduate credit by examination. Minimum achievement level for receiving credit is C. Neither CR nor NC affects the grade point average. See Credit by Examination section of this bulletin.

HW—Hardship Withdrawal

The dean or dean's designee may, at his or her discretion, grant a hardship withdrawal when extraordinary and unanticipated circumstances prevent the student from completing one or more courses. As a general rule, the dean or dean's designee will require that the student provide documentation to support his or her request. There is no effect on the grade point average and tuition is refunded in full. Financial aid recipients are advised to check with the Financial Aid Office before requesting a hardship withdrawal as this action may negatively affect financial aid.

I—Incomplete

A temporary grade indicating that work in the course was acceptable, although a critical portion of it was not completed because of illness or other serious circumstances beyond the student's control. The I grade may not be used for the convenience of the faculty member or student. When the instructor assigns an I grade at the end of a term, a provisional grade is also submitted which will be automatically assigned by the registrar should the deadline expire without student action. This provisional grade should be calculated to include all work completed up to the date of final attendance plus a failing grade for work/examinations the student did not complete. An incomplete fee is posted on the student's account when the grade is submitted to the registrar. Once a degree has been posted, removal of an I grade is not permitted.

When the specified work has been completed, the faculty member files with the registrar a change of grade form in order to have the final grade posted to the transcript. Beginning with courses taken fall 1997, deadlines for submission of the form are:

I Grade Received	Faculty must submit grade by
Fall term	March 1
Winter term	May 1
Spring and Summer terms	November 15

Under unusual circumstances, a faculty member may request of his/her dean an extension of the time the "I" will remain on the record. Such a request for extension must be made to the registrar by the deadlines listed above.

While on the transcript, I grades will carry no penalty; i.e., they will not be counted in credit or grade point average computations.

IP—In Progress

Symbol used on the academic transcript to indicate current quarter's courses.

LP—Language - Prepared

A grade used solely in the Culture and Language Bridge Program to indicate satisfactory completion of an intensive, skill development course required as an academic support for some international students.

LU—Language - Unprepared

A grade used solely in the Culture and Language Bridge Program to indicate unsatisfactory performance in an intensive, non-credit, skill development course required as an academic support for some international students.

M—Missing

Symbol used on grade reports to inform student that a grade has not been received from instructor.

N—No Grade

A suspended grade for courses in which work is not scheduled for completion until after the quarter closes, e.g., thesis or research courses at the graduate level. It is the responsibility of the student to arrange with the supervising instructor to remove the N within the following four consecutive academic quarters, per the schedule given below. Once the closing date has passed, re-registration and payment of regular tuition is required in order to obtain credit for the work completed. Once a degree has been posted, removal of an N grade is not permitted.

N Grade Received	Faculty must submit grade by
Summer term	August 1 of the following calendar year
Fall term	November 15 of the following calendar year
Winter term	March 1 of the following calendar year
Spring term	May 1 of the following calendar year

NC—No Credit

Grade assigned when credit by examination has been attempted and student did not achieve acceptable performance level of at least C. There is no effect on the grade point average.

P—Pass

P/F - The P grade is assigned when a student successfully completes an undergraduate course after electing the pass/fail grading option for a general elective course. Failure to achieve at the minimum D- level results in a grade of F, which will affect the grade point average. See Pass/Fail option below.

Q—A Suspended Grade

For doctoral project/dissertation work-in-progress at the 600 level only. The Q grade must be removed within the six-year limit for all the degree coursework. Once the six-year limit has expired, the Q becomes permanent and the student must re-register for the course, paying regular tuition to obtain credit for the work completed.

R—Doctoral Research

Indicates registration in a required non-credit doctoral research course. A permanent grade which does not effect the grade point average.

W—Withdrawal

Official withdrawal

Y—Audit

A course for which no credit is given. Not available for course numbers 500-950.

YW—Audit Withdrawal

Student registered as an auditor but did not attend through end of course.

Z—Unofficial Withdrawal

Grade assigned by the registrar when it can be documented that a student has registered for a course, has never attended, and has not officially withdrawn according to university policy. There is no effect on the grade point average.

Pass/Fail Option

(Policy 76-1)

Undergraduate students may elect a pass/fail option in free elective courses only, and under the following conditions:

1. Student must elect the pass/fail option at the time of registration and may change to or from P/F only during the drop/add period.
2. Ten quarter credits graded P/F, regardless of number of courses, is the maximum acceptable toward a bachelor's degree.
3. The P/F grading option is not allowed for major or college requirements or university core. Should the student elect a course P/F and then change majors so that the course would be required, the student's dean will make final determination as to applicability of the credit toward graduation.
4. Only one P/F course may be selected in a given quarter.
5. Courses numbered 500-950 are not open to P/F grading.

Courses elected as P/F will appear on the student's permanent record and will be graded P (Pass) with a minimum passing grade equivalent to D-, or F (Fail).

Courses in which a P grade is given will be counted as completed credits, but will be excluded from computation of the grade point average. An F (Fail) will be reflected in the grade point average and the course will not be counted as completed.

A minimum of 90 credits graded A through D- must be completed at Seattle University to qualify for graduation with honors. Courses graded P/F do not count toward this total of 90.

Grade Point Average

(Policy 75-2)

Seattle University requires that undergraduate students maintain a C average, which is equivalent to a cumulative 2.00 grade point average on a 4.00 scale. Requirements of professional schools may be higher and individual majors and programs may have special grade requirements.

The grade point average is computed by dividing the total number of quality points achieved by the total number of credit hours attempted in which the student earns a letter grade of A through F.

Undergraduate students' major grade point average includes all Seattle University credits used to complete course and credit requirements of the major department as well as the supporting courses in allied fields specifically required by the department. This includes courses in the major program which also satisfy a core requirement.

Graduate students must maintain a B average, which is equivalent to a cumulative 3.00 grade point average on a 4.00 scale.

Grade Reports

Student quarterly grade reports are mailed at the end of each quarter. The university does not hold itself responsible for grade report errors unless the registrar is notified of the error within six months after the date of issue of a grade report.

Leave of Absence

(Policy 97-4)

Matriculated students who have completed one full quarter at Seattle University, who are not international students and who have not been dismissed for academic reasons, may apply for a leave of absence when they must interrupt their education under specific circumstances. The

leave will be in effect for no more than four consecutive quarters and must be approved by the student's dean in consultation with the registrar.

A leave of absence is not granted when a student is simply "stopping out" for one or more terms but will be granted for: military service; church, missionary or volunteer work through a recognized religious or volunteer organization; medical or financial hardship; family hardship; participation in a university approved study abroad program; participation in a reciprocal university program of study; or, at the recommendation of an academic department because a student must pursue required courses at another institution.

When formally approved, this procedure may grant students special consideration by financial aid and loan agencies.

Majors

Major requirements within each department or school are outlined in this bulletin under departmental requirements or degree requirements.

Major credit minimums as stated in this bulletin must be met except when transferred semester units fill content with 4.5 quarter credits. In such a case, a one credit shortfall in the major is the maximum shortage allowed. However, under no circumstances will the total credits required for the degree be reduced.

Minors

(Policy 84-1)

Departments or schools offering undergraduate minors outline specific requirements in this bulletin under departmental requirements or degree requirements. Students wishing to have a minor posted to their academic records must file a request for minor form with the registrar, which outlines the composition of the minor. Minors are granted with the following conditions:

1. Minors will be posted to a student's record concurrent only with a first undergraduate degree.
2. Minors cannot be earned within the 135-credit Matteo Ricci College degree program.
3. No more than 15 credits from an interdisciplinary major will be counted toward any student's minors. Interdisciplinary majors are: ecological studies, general science, international studies, and liberal studies.
4. The bulletin under which the student receives an undergraduate degree will stipulate course work for a minor.
5. Minors must include at least 30 quarter credits, including a minimum of six courses. See English Department listing for the exception to this requirement for students who have completed the Honors Program.
6. A maximum of 15 quarter credits of course work graded C (or 2.0 on the decimal grading system) or better may be transferred from other regionally accredited post-secondary institutions.
7. No more than five quarter credits in a minor can be graded P or CR. Additionally, the cumulative grade point average for all courses used in the minor can be no less than that applied to majors within the department sponsoring the minor.

Refer to individual departments for specific requirements.

Non-Matriculated Status

(Policy 82-2)

Non-matriculated students are defined as: those students admitted to Seattle University, by means of a special application form and fee, for the purpose of post-secondary or post-

baccalaureate study which is not intended to culminate in a Seattle University degree or certificate; or, 2) those students who are recorded in the computer system via a manual registration process through the Office of the Registrar for particular programs offered by the School of Education's Professional Development Office, Matteo Ricci College, or the Department of Military Science (see Policy 82-2).

Students admitted as undergraduate non-matriculants must possess a high school diploma; those admitted as graduate non-matriculants must possess a baccalaureate degree from a regionally accredited institution of higher education. They are expected to be full participants in their courses and are held to the same standards as matriculated students.

There is no limit to the number of quarters for which a student may attend Seattle University as a non-matriculated student, but not all courses are open to non-matriculants. During Fall, Winter, and Spring terms, non-matriculated students will be admitted to courses on a space available basis after all matriculated students have had the opportunity to register; i.e. two weeks prior to the start of classes. During summer term, non-matriculated students may register when registration opens for the term.

Credit is awarded for successful completion of courses taken by non-matriculated students; however, courses will not be applied toward a degree or certificate until the student has applied and been accepted to a program of study as a matriculated student and petitioned the appropriate dean to request that said credits apply toward program requirements. Completion of courses does not guarantee admission into a program of study.

Probation and Dismissal

(Policies 75-14, 75-3, 81-2, 81-3, 81-4 and 84-2)

A matriculated student who falls below the standard required for graduation may be placed on probation and given the opportunity to improve the quality of work before final dismissal. A student will be placed on probation if the cumulative grade point average falls below 2.0 or the minimum required by a professional school. Probation may be continued for a second quarter if the cumulative grade point average continues below the standard of the particular school or college.

Students who have two quarters of poor scholarship at Seattle University, i.e., who earn a cumulative grade point average below 2.0, or who fail to maintain standards in a professional school, or those who receive failing grades in 10 or more credits in one quarter, or those with an excessive number of I grades, may be subject to dismissal. Students dismissed for academic reasons may request reconsideration through the appropriate dean in accordance with the policy of the individual school.

Readmission

(Policies 75-3, 76-10, 81-3)

Readmission must be requested by both graduate and undergraduate students if their absence from Seattle University has been four or more consecutive quarters. Students will continue to receive registration materials and will qualify to register for four quarters after the last quarter of registration.

Exceptions: students listed below must apply for readmission if absent for one quarter, unless that quarter is summer:

1. School of Nursing students have special progression requirements stated in Policy 75-3, which take precedence.
2. Diagnostic Ultrasound majors have special progression requirements stated in Policy 81-3, which take precedence.
3. International students should refer to Policy 76-10 for special regulations.

Re-entering students who have attended other post-secondary institutions since withdrawing from Seattle University must submit official transcripts before applications for readmission can be considered. Credit for coursework completed elsewhere may be transferred according to the conditions listed under Transfer of Credit from Other Institutions in this bulletin.

Students absent from the university for four consecutive quarters or more will be held to the degree requirements in effect at the time of readmission.

Students readmitted to the university in fall 1991 and after, who completed the former core curriculum before stopping out, may graduate under that core plan even though they have been away from the university for four consecutive quarters or more. However, ten year old courses graded D that had applied to core must be repeated or replaced by an appropriate course.

Students who had not completed the former core and who return to complete their degrees after four or more consecutive quarter's absence must complete the university core curriculum as outlined in this bulletin.

Records

(Policies 76-3 and 76-9)

As required by federal legislation, Seattle University has a policy on the rights of students to privacy of their educational records and access to the information on file. Student directory information will be published by the university unless a student requests in writing that it not be released. Such requests must be filed with the registrar by the deadline as published in the official university calendar. Records policy includes the right of the university to place a restriction against the transcript of a student and to deny re-registration until all obligations to the university have been met. The full policy statement, including right of appeal, may be obtained from the registrar.

Registration

All students must register on the dates published. No registrations are permitted after the last day to register, as published in the university calendar. Students registering after the first class day are held responsible for absences thus incurred. No person may attend any university course unless officially registered. A late tuition payment fee is assessed according to the date announced in the quarterly *Schedule of Classes*.

Registration Changes

Students are held accountable to complete every course for which they register. If it is necessary to add or drop a course, the student must complete the appropriate touch-tone registration transaction by the last day such activity is allowed as published in the university calendar. Failure to officially withdraw from a course will result in a grade of F on the student's academic record.

Repeating a Course

(Policy 77-2)

An undergraduate student who receives a grade of C- or below in a course at Seattle University may repeat that course. Some schools and major departments require that students repeat a required course under some conditions. When the course is repeated at Seattle University, the most recent grade will be posted to the permanent record and will be used in computing the cumulative grade point average, although course credits will be counted only once toward a degree. The original grade will remain on the record. A student who receives permission to repeat a course at another institution will have no adjustment made to the Seattle University grade point average. The new course may count for credit and/or for content fulfilling a requirement as determined by established transfer policies.

If credit has been allowed for a course taken at another institution and then the course is repeated at Seattle University, the transfer credit is revoked and the Seattle University credit and grade replace it. A transfer student who has registered three or more times for a course at another institution without successfully completing it will be allowed to register for the course at Seattle University only once.

No student will be allowed to register for any single required course more than three times, including registrations resulting in grades of NC, I, HW, and W.

Some professional programs have specific regulations regarding the repeating of a course.

Transcripts

(Policies 76-3 and 97-6)

Students may obtain official Seattle University transcripts of their academic record by submitting a written request to the Registrar's Office. No official transcript will be released for students with a financial obligation to the university.

A limited number of transcripts are offered without charge. They and other enrollment certifications should be requested at least one week before they are required. A fee is charged for same day service. Transcripts are generally not issued during the period of registration, examinations, or Commencement.

The university is not responsible for any error on a transcript that is not brought to the attention of the registrar within six months of the closing date of the quarter in which the error occurred.

When submitted to the university, official transcripts from other institutions must be received in a sealed envelope and must bear the seal of the issuing institution along with the date of issue and the appropriate signature. Transcripts stamped "issued to student" will be accepted as official only if they meet these criteria and are considered official by the issuing institution.

Transfer of Credit from Other Institutions

(Policies 77-1 and 79-1)

Regular undergraduate students who have attended other regionally accredited colleges or universities may have credits transferred to Seattle University under the following conditions:

1. An official transcript must be filed with the registrar thirty (30) days after completion of the term.
2. Until fall 1995, work graded D (or 1.0 on the decimal grading system) or higher was allowed for transfer except for major program requirements and other major department requirements in the Schools of Business and Economics, Science and Engineering, Nursing, and some departments in the College of Arts and Sciences, where C (or 2.0 on the decimal grading system) was the minimum.

After fall 1995, the lowest acceptable grade in transfer for any course for new or continuing students is C- or 1.5 on the decimal system except for major program requirements and other major department requirements as stated above, for which the minimum will remain 2.0. Courses graded below C- or 1.5 submitted for transfer after fall 1995 by new or continuing students are not acceptable irrespective of the date the course was completed.

3. Credit granted by two-year colleges may be applied to university freshman and sophomore years only. Transfer of such credit may not exceed 90 quarter credits.

4. Once 90 credits have been accumulated from all schools, including Seattle University, additional community college credits may not be transferred. Courses taken at a community college beyond the 90 credit limit, if applicable to the Seattle University degree, will not have to be repeated and can fill course content requirements, but credits do not transfer and such courses will not reduce the minimum additional 90 credits required for a Seattle University degree.
5. For admission with advanced standing, no more than 135 quarter credits will be accepted toward a bachelor's degree requiring 180 credits or more. All transfer students must take at least ten credits in their major field of study at Seattle University and meet core curriculum requirements. Some majors have higher minimums.
6. The direct transfer associate (DTA) degree granted by a regionally accredited Washington state-sponsored community college will bring certain benefits to the student who has completed a degree based on Intercollege Relations Commission guidelines of 1984 and after, and received it prior to first matriculation at Seattle University. The student will be admitted with junior status, with 90 credits, and will have fulfilled freshman and sophomore university core requirements except for philosophy, religious studies, and requirements of professional programs.
7. The last 45 degree credits must be completed at Seattle University. This is referred to as the senior residency requirement.
8. Credit earned through extension courses may be transferred if the course was sponsored for degree credit by an academic department of a regionally accredited institution. No more than 45 quarter credits of extension credit will be accepted. Credit earned through correspondence shall not exceed 12 quarter credits and must be included in the extension credit total of 45 quarter credits.
9. Credits more than 10 years old graded a minimum of C or 2.0 will be reviewed to determine applicability of credit to the major. Previously accepted courses graded lower than C or 2.0 that are more than 10 years old when an undergraduate student is readmitted will be removed from the Seattle University record and will not be applicable to any degree.
10. Since the Seattle University grade point reflects only work done at this university, the grade point average cannot be improved by repeating elsewhere a course failed at Seattle University.
11. Credits from unaccredited and newly accredited schools and non-traditional programs are subject to additional review prior to being transferred. See Policy 79-1 for additional information.
12. Not all courses offered in post-secondary institutions are transferable to the university. Guidance is available through transfer guides for Washington community colleges issued annually by Seattle University and by Policy 77-1.
13. Continuing Seattle University students who wish to take additional work at another college must file a completed transfer verification form with the registrar prior to attendance to assure that the courses will be transferable.

Withdrawal

(Policy 75-22)

The Registrar's Office must be officially notified in writing by students when they withdraw from any course. The withdrawal form is obtained from the registrar and presented to the instructor, other applicable offices, and registrar, in that order, for approval and signature. Failure to officially withdraw from a course will result in a grade of F on the student's academic record.

The official date of withdrawal will be the date the appropriate documentation and completed form are received by the registrar. A grade of W will be allowed until the end of the seventh week of any quarter.

A grade of HW may be assigned by the dean or the dean's designee when a student must withdraw from a course for medical/family hardship reason as documented by a licensed professional. There is no effect on the grade point average and tuition is refunded in full. Financial aid recipients are advised to check with the Financial Aid Office before requesting a hardship withdrawal as this action may negatively affect financial aid.

Graduation/Commencement

Official Commencement exercises are held once a year in June. All responsibility for fulfilling the requirements for graduation rests with the individual student.

Academic Progress

Seattle University recognizes that students progress at different rates and their time to degree completion is often dictated by individual circumstances. However, all students (except those enrolled in the Matteo Ricci College) must complete a minimum of 180 credit hours of approved course work to be awarded a baccalaureate degree. (Note that some departments require more than 180 credits total.)

Application for a Degree

Application for a degree must be made at the Registrar's Office according to the deadlines as published in the university calendar: for winter and spring completion, apply by November 1; for summer and fall completion, apply by February 1. Candidates for a degree normally file applications two quarters preceding their final registration.

Application for a Certificate

(Policy 76-11)

Application for a certificate must be made at the Registrar's Office within the first four weeks of the student's last quarter in a certificate program. Deadlines: for fall completion, apply by October 30; for winter, apply by January 30; for spring, apply by April 30; for summer, apply by July 30.

Bachelor's Degree Requirements

(Policies 75-1 and 76-2)

Students are held to degree requirements in effect at the time of first enrollment. Students who are readmitted after an absence of four or more consecutive quarters or who change their majors are held to degree requirements in effect at the time of readmission or change of major. Until spring term 2000 the academic year began with fall quarter. Beginning June 2000 the academic year commences with the summer 2000 term. Therefore, students admitted or readmitted for the summer quarter will follow degree requirements as stated in the 2000-2001 bulletin of information. Students may, by petition, elect to graduate under degree requirements specified in subsequent bulletins of information; under no circumstances will the requirements from earlier bulletins of information be applied.

Candidates for an undergraduate degree must meet the requirements listed below:

1. Core curriculum requirements and specific requirements of the college or school from which the student expects to graduate must be fulfilled. A minimum overall

grade point average of 2.0 must be achieved and a grade point average of 2.0 is required in departmental requirements of the student's major. Higher grade point average requirements pertain in many programs as listed in program sections. The major grade point average includes all Seattle University credits used to complete course and credit requirements of the major department as well as the supporting courses in allied fields specifically required by the department. This includes courses in the major program which also satisfy core requirements. Major credit minimums as stated in this bulletin must be met except when transferred semester units fill content with 4.5 quarter credits. In such a case a one credit shortfall in the major is the maximum shortage allowed. However, under no circumstances will the total credits required for the degree be reduced.

2. A minimum of 180 credits is required for the baccalaureate degree, except for graduates of the Matteo Ricci College, where 135 credits is the minimum, and the civil engineering degree, which requires a minimum of 192 credits.
3. Ten credits in philosophy plus a five credit upper-division ethics course and 10 credits in theology and religious studies are required in all degree programs. See the Core Curriculum section of this bulletin for specific requirements and possible exceptions.
4. The senior year must be spent in residence at the university, which shall be understood to mean the final 45 degree credits. Such work is to be taken in the university under the direction of members of the faculty. In the case of Seattle University students enrolled in AFROTC and NROTC at the University of Washington, this requirement may be waived for aerospace and naval science studies. With specific permission from the student's dean, senior residency may be waived for an approved study abroad program.
5. All degree requirements should be completed within 10 years of the date on which the college work was begun. Credit over 10 years old will only apply to a degree when graded C (2.0) or better and approved as applicable by the student's dean or department chairperson.
6. All financial obligations to the university must be met prior to release of the diploma or an academic transcript.
7. Students working for a second baccalaureate degree, either consecutively or concurrently, must complete a minimum of 45 credits beyond the first baccalaureate degree and complete all specific requirements of the new program and/or the new college. These 45 credits must be completed in residence at Seattle University. To satisfy core requirements, students who have previously completed an acceptable baccalaureate degree must complete "essential core" at Seattle University: that is, they must pass an upper-division ethics course; a religious studies core course; and one senior synthesis course appropriate to the degree(s) sought.

Commencement with Deficiencies

(Policy 83-1)

Effective June 1999, students who have not completed their degree requirements may participate in commencement exercises under the following conditions:

1. Undergraduates who have ten or fewer credits of degree requirements remaining to be satisfied and who meet the grade point standards for their degree programs are eligible to participate in commencement.

Graduate students who have six or fewer credits of degree requirements remaining to be satisfied and who meet the grade point standards for their degree programs are eligible to participate in commencement. The School of Education

has additional requirements. See the School of Education in the *Graduate Bulletin* for details.

2. Applications for commencement with deficiencies must be filed in the Registrar's Office on or before the closing date for regular graduation applications.
3. The commencement program will include the names of those who commence with deficiencies; however, a symbol will note those students who have not fulfilled all requirements and no honors will be shown. Honors will appear on the official transcript and on the diploma once the requirements are completed.
4. Students commencing with deficiencies will not receive their diplomas until after all requirements for graduation have been completed.
5. Students must notify the registrar when they have completed degree requirements by submitting the request for certification of degree completion after commencement with deficiencies form. When degree requirements are fulfilled and forms have been submitted, degrees and honors will be posted on transcripts. Diplomas will then be issued and students' names will appear in the commencement program with applicable honors the following June.
6. Students who exercise this option to participate in commencement with deficiencies may not participate again following completion of their degree requirements.
7. Students who have not completed their degree requirements and submitted the request for certification of degree completion form within 12 months of their participation in the commencement ceremony will be held to the catalog requirements in effect at the time they petition for their degree certifications.
8. Students completing two degrees simultaneously may participate in the commencement exercises provided they have met all requirements for the first degree and have 10 or fewer credits remaining to be completed for the second undergraduate degree or 6 or fewer credits remaining for the graduate degree. Since the student's entire academic program, upon which undergraduate honors are determined, has not been completed, undergraduate honors will not be indicated in the commencement program and students will not wear the honors hood; honors will not be posted to the transcript until both degrees are completed.

Honors at Graduation

(Policy 75-21)

Graduation with honors requires completion of a minimum of 90 credits in residence at Seattle University in courses graded A through D. Should a student elect the P/F option for any one course or take a credit by examination as part of the 90 credit minimum, honors eligibility is forfeited. In programs where CR/F grades are mandatory for required courses, such courses are allowed toward the minimum 90 credits, but no student may be considered for honors with fewer than 80 graded credits.

For students who complete degree requirements after February 1993, at least 90 Seattle University graded credits are required:

Cum Laude—3.50 through 3.69

Magna Cum Laude—3.70 through 3.89

Summa Cum Laude—3.90 through 4.00

Honors at graduation are conferred on undergraduate students only.

Since commencement occurs prior to spring quarter grading, the commencement program will indicate honors as of the winter term grades. However, actual honors confirmed, as shown on diplomas and transcripts, will include the final quarter grades.

President's Award

(Policy 75-12)

The President's Award is given to the graduating senior who has maintained the highest scholarship throughout four years of college work, as determined by grades at Seattle University and in the judgment of the academic deans.

Academic Honesty Code

Seattle University is committed to the principle that academic honesty and integrity are important values in the educational process and that violations in this area should be dealt with in an appropriate and effective manner.

Violations

Academic dishonesty includes but is not limited to cheating, plagiarism, ghost writing, and furnishing false or misleading information on any official university academic form.

Penalties

The imposition of penalties initially will be the responsibility of classroom teachers or department chairs, depending on the nature of the offense. For example, teachers have the discretion either to reprimand students or give failing grades for assignments, individual examinations, or entire courses. Brief reports of incidents and the penalties imposed will be filed with both instructors' and students' department chairs. In any such instance students have the right to appeal teachers' actions first to department chairs, and then to the appropriate dean.

In the case of repeated or more serious violations of academic honesty, teachers or department chairs involved may recommend to students' deans that students either be suspended or expelled from the school or college in which they are enrolled. Suspension or expulsion from a given school is within the authority of the dean of that school and may be appealed by students to the provost.

Although suspension or expulsion from a school will, in most instances, have the effect of separating students from the university, this result does not follow necessarily or automatically. In a rare instance, depending on the nature of the code violation, such students might be accepted by the dean of another school. Only the president may suspend or expel students from the university as such, and only, in normal circumstances, following a hearing of the charges in the presence of the accused.

Student Academic Grievance Procedure

The purpose of the grievance procedure is to provide a confidential, fair, and timely means by which students may seek redress for an academic grievance. It assures a consistent and uniform response to such grievances throughout all academic units of the university. It is intended to promote a spirit of conciliation and mutual respect between students and faculty members by requiring cooperative participation in the resolution of grievances.

Scope

The ultimate responsibility for the integrity of the academic grading process belongs to the university as an institution. Individual faculty members routinely act as agents for the institution in evaluating the student's academic performance and in assigning final course grades. The following process will guide the university's response to allegations of arbitrary and capricious behavior by any member of the teaching faculty in this evaluation effort.

The burden of proof lies with a student who claims a grievance; however, every student has a right to know the criteria for performance evaluation to be applied in a course and the system

of grading to be used by the instructor. This information should be included in a written syllabus and made available to all students in a class early in the quarter. The instructor has an obligation to award grades on the basis of rational, objective evaluation of a student's performance.

Questions of professional judgment concerning course content, instructional methods, and appropriateness of performance standards are not subject to review by this procedure, although they may be considered by the faculty member's program director, department chair or dean. Questions about the application of general university policies are also beyond the scope of this procedure but may be addressed to the appropriate administering department of the university.

The procedure does not apply to academic dismissals from the university.

Process

To the greatest extent possible, academic grievances should be resolved at the level of authority closest to the classroom in which the alleged mistreatment occurred. The process involves a sequence of steps, at any one of which the matter may be adequately resolved and the procedure terminated. These steps are: the informal conference, the filing of a formal grievance, the appeal to an academic grievance board and a limited appeal to the provost. Each step of the process must be concluded before the next stage begins.

The Informal Conference. When a student feels aggrieved by a grading action of an instructor, a dialog between that student and the instructor must take place to provide an opportunity for the instructor to explain the evaluation that led to the grading action and for the student to explain the nature of the grievance. By mutual agreement of the student and the instructor, other persons may be involved in this informal conciliation process.

The Filing of a Formal Grievance. When the informal conference fails to resolve the matter, the student may file a formal grievance in duplicate with the chair of the department offering the disputed course. The formal grievance must be filed no later than the sixth week of the quarter following the quarter in which the challenged action occurred. Grievances arising from spring quarter courses must be filed no later than the sixth week of the following fall quarter, although they may be processed during the summer session if convenient and agreeable to all parties.

The formal grievance filed by the student will be in writing. It will describe the details of the grievance and propose a specific action to resolve the grievance. Upon receipt of the two copies of the formal grievance, the chair will notify the instructor of the student action and request in duplicate from the faculty member a written response to the allegations and a specific suggestion for resolution of the grievance. The involved instructor will receive a copy of the formal grievance and the student will receive a copy of the response by the instructor.

Within two weeks of receipt of the student's formal grievance, the chair will convene a meeting of the involved parties. Both student and instructor may be accompanied by one support person or advocate, who is also a member of the Seattle University community. In the course of this meeting, the chair will attempt to resolve the grievance. Within five working days of the meeting, the chair will issue a written statement summarizing the merits of the allegations and proposing course of action, even as far as changing a grade, in response to the formal grievance. Copies of the chair's statement will go to the student and to the instructor.

If either the student or the faculty member disagrees with the course of action proposed by the chair's report, an appeal to the appropriate academic grievance board may be made within 10 working days. If no appeal is made in that period, the action proposed by the chair becomes final.

The Appeal to an Academic Grievance Board. Each college, school, or institute will have an academic grievance board consisting of two full-time faculty members from that college and two students in good academic standing who are majoring in that college. Each board will have a list of designated alternates, equal in number to the board. The dean, after

appropriate consultation within the college, will appoint the faculty members and the alternates; the president of the ASSU will appoint the student members and alternates. Members of the board will have staggered terms of two years each. For each college offering a graduate degree, two additional alternate graduate students will be designated by the president of ASSU in consultation with the dean of the school/college. When a grievance under appeal involves a graduate student, at least one of the student members of the board must be a graduate student. The composition of the academic grievance board and the alternates list for each academic year will be announced by the deans no later than October 10.

A student or instructor who disagrees with the chair's report stemming from the formal grievance filing may submit a written request to the dean for an appeal hearing before the academic grievance board in the college where the disputed action took place, stating the basis for the request. The dean will have three working days to inform the student and affected faculty member of the board's membership and of the alternates list. The student and the faculty member may each challenge one member of the board. A challenged member will be replaced by the appropriate alternate serving the same term.

The board will convene within five working days of the determination of the panel's composition. At this time, it will consider only the written request of the appellant and the three written statements from the previous treatment of the formal grievance filing. Upon consideration of this record and with agreement of three members, the board may vote to sustain the recommendation of the chair's report. If this occurs, no further appeal is possible (unless a grade is being raised above the initially awarded course grade) and the process is terminated upon issuance of a written report by the board explaining its action.

If two or more of the members of the board agree that there appears to be merit to the appeal, the board will accept the matter for hearing and notify the dean. The hearing normally will be held within 10 days of the board's acceptance of the matter. At the hearing the board will receive testimony from the student, the faculty member, and any other persons deemed relevant by the board. The hearing will not be an adversary proceeding and cross-examination will not be permitted, although members of the board may ask questions of any witness. The board will make every effort to compile a complete and accurate record of testimony and other evidence. The three reports from the formal grievance filing will be a part of the board's record.

Within 10 working days of the conclusion of the hearing, the board will deliver its findings and recommendations to the dean. Within five working days of receiving the board's report, the dean's recommendation will be delivered to the student and the faculty member.

1) If the dean concurs with the board's recommendation, the grievance process is terminated and the proposed action becomes final, except in the instance where the proposed action would raise a grade above the initially awarded grade. In that instance, the faculty member has five working days to appeal to the provost.

2) If the dean's recommendation varies from the board's recommendation, either party has 10 working days to appeal to the provost. If no appeal is filed within that period, the dean's recommendation becomes final and the grievance process is terminated.

Any failure by participating faculty or administration to comply with this grievance procedure is sufficient basis to permit appeal by any aggrieved party to the provost, within 20 working days of the faculty action.

Limited Appeal to the Provost. Upon notice of appeal to the provost, the entire written record of prior proceedings in the matter will be forwarded by the dean. All actions of the provost will be based upon this record. The provost may remand the matter to the dean or the academic grievance board for additional consideration, sustain the dean's recommendation, or take a specific action based upon suitable new findings and conclusions. Either of the latter two actions becomes final and the grievance process is terminated. There is no further appeal on campus.

Sexual Harassment Grievance Procedure

Seattle University recognizes its obligation to promote an environment and an attitude that encourages men and women to meet as equals in all aspects of life. Seattle University condemns any form of sexual harassment.

Sexual harassment can involve faculty, staff, or students. This statement covers men or women harassing men or women.

Students who believe they have been victims of sexual and/or gender harassment, and who wish to report or discuss incidents or receive counseling while preserving anonymity, should contact the affirmative action officer.

This statement in no way precludes students taking action outside the university.

Sexual Harassment Policy Statement

Sexual harassment by any employee is forbidden. Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal/non-verbal, or physical conduct of a sexual nature when:

- 1) Submission to such conduct is made either explicitly or implicitly as a term or condition of an individual's employment.
- 2) Submission to, or rejection of, such conduct by an individual is used as a basis for their employment.
- 3) Such conduct has the purpose or effect of interfering with an individual's work performance, or creating an intimidating or offensive working environment.

Filing a Complaint

Seattle University is committed to providing a work environment that is free of discrimination. In keeping with this commitment, the university maintains a policy prohibiting unlawful harassment in any form. Procedures for reporting sexual harassment claims may be formal or informal and apply to faculty, staff, administration, and students.

Any member of the university who believes that he or she has been the victim of sexual harassment may bring the matter to the attention of the university's affirmative action officer.

The complainant should present the complaint as soon as possible after the alleged harassment occurs to ensure his or her complaint has been entered into the record, should he/she decide to file a formal complaint at a later date.

The first meeting with the complainant and affirmative action officer is informational and confidential. This meeting is to assure the complainant that his or her complaint will be heard; to diffuse any feelings of guilt, anger, or discomfort; and to discuss the process for filing a formal complaint. The complainant is assured that the dissemination of information relating to the case will be limited in order to safeguard the privacy of all individuals.

If the complainant decides to proceed, he/she will meet with the affirmative action officer and submit a written statement.

The affirmative action officer will inform the alleged offender and his/her manager. A written statement of the complaint will be given to both parties. The complainant will be advised that every effort will be made to protect him/her from retaliatory action by the person(s) named in the complaint.

Once a complaint is submitted, the affirmative action officer will initiate steps deemed appropriate to effect an informal resolution to the complaint acceptable to both parties.

The complainant, if unsatisfied with the resolution proposed, shall have access to the university's formal grievance procedures upon submission of a request to the affirmative action officer.

Seattle University believes that publishing these procedures will help create an atmosphere in which individuals who believe that they are victims of harassment will be assured that their complaints will be dealt with fairly.

The Core Curriculum

David Leigh, SJ, PhD and Burt Hopkins, PhD, Co-directors

"A Jesuit liberal arts education assumes that you become what you desire. All the courses in art and literature, in mathematics and science, in history, economics or business, in philosophy or theology aim at helping you clarify, broaden, and deepen your most important question in life: 'What do you really want?' When that question is deepened, most of us discover that what we really want is the knowledge, skills, and power to build a world of justice and love."

—John Topel, SJ, Chair, Catholic Tradition

Objectives

Students at Seattle University take a basic program of liberal studies called the core curriculum. The university core curriculum introduces all Seattle University students to the unique tradition of Jesuit liberal education. The curriculum results from four years of discussion and work by more than 100 faculty members and administrators in response to a call by students and teachers for an integrated way of learning. In accord with Seattle University's Mission Statement, the core curriculum has three aims:

1. To develop the whole person for a life of service.
2. To provide a foundation for questioning and learning in any major or profession throughout one's entire life.
3. To give a common intellectual experience to all Seattle University students.

This university core curriculum has several distinctive characteristics:

- It provides an integrated freshman year for all students.
- It gives order and sequence to student learning.
- It provides experience in the methods and content of the range of liberal arts, sciences, philosophy, and theology.
- It calls in all classes for active learning, for practice in writing and thinking, and for an awareness of values.
- It encourages a global perspective, an intercultural and gender awareness, and a sense of social and personal responsibility.

The university core curriculum provides this ordered experience in three phases.

Phase One Foundations of Wisdom

The first phase gives a student the basis to move from experience to understanding and then to critical judgment and responsible choices. The goal of this first phase is to develop several foundations of liberal learning:

- Foundational Habits—Facility in asking the right questions, in critical and creative thinking, in writing and speaking skills, and in mathematical literacy.
- Foundations of Culture—Familiarity with the basic ways of knowing through a study of Western and other civilizations, primarily in their history, literature, science, and fine arts.

Phase Two Person in Society

The second phase helps a student to expand horizons by confronting major modern issues. Here the student learns to interpret and to make judgments through the methods used in the human sciences, philosophy, and religious studies. Building on the foundational skills and awareness of literature, history, science, and fine arts (from Phase One), the student delves into the issues and questions raised by anthropology, economics, political science, psychology, and sociology. Along with this study, he or she also discovers the philosophical and theological assumptions which underlie the commonalities and differences of human experience in society today.

Phase Three Responsibility and Service

The third phase is designed to help the student prepare more directly for a life of service in the light of authentic human and Christian values. The first course in this phase is an ethics course, which is followed by a second theology course. In addition, the student takes one interdisciplinary course that addresses a major contemporary problem from a number of approaches. Finally, the student concludes his or her university education with a senior synthesis, which ties together liberal learning with professional studies. What is special about Phase Three is its emphasis on evaluative activities that are an essential part of responsible service.

How do these parts of the core curriculum fit together? Since many of the courses are prepared by teams of teachers, the courses connect with one another and build in sequence so that the student gets a sense of putting things together. In Phase One, the courses in writing and critical thinking, as well as some courses in history and literature, are connected and taught in clusters or sequences of 10 credits each. The same connections are made in Phase Two between the philosophy of the person and the first social science course. Finally, the entire curriculum begins with an integrated freshman year and ends with an interdisciplinary course and a senior synthesis in the final year.

The University Core Curriculum

Additional requirements, exceptions, and stipulated courses are established by the schools and departments of the university and those sections of this bulletin should be consulted before choosing core courses. Check course descriptions in the respective departmental sections for prerequisites. All courses fulfilling core requirements must be taken for a letter grade. For each student, no individual course may fulfill more than one core curriculum requirement.

For all students admitted to the university fall 1991 or later, the following core requirements are in effect:

Phase One Foundations of Wisdom

Writing/Thinking Sequence 10

ENGL 110 Freshman English

PHIL 110 Introduction to Philosophy and Critical Thinking

These two courses are to be taken in sequence in a 10-credit block during the fall and winter or winter and spring quarters of the freshman year.

History/Literature Sequence 10

ENGL 120 Masterpieces of Literature
and

Choose one of the following two courses:

HIST 120 Origins of Western Civilization

HIST 121 Studies in Modern Civilization

These two courses are to be taken in sequence or a cluster in a 10-credit correlated block during the winter and spring quarters of the freshman year. (Students in the School of Science and Engineering may take this sequence in spring of the first year and fall of the second year).

Please Note: Students in the College of Arts and Sciences must take HIST 120 for core and may select HIST 121 or 231 to fill the additional college history requirement.

Fine Arts 5

FINR 120 or approved fine arts alternate: ART 100, 120, 160, 211, 212, 213; DRMA 211, 212, 250, 260; MUSC 200, 211 or 212

Mathematics 5

Any five-credit course in mathematics on the 100 level (or above) for which the student is qualified.

Science 5

Any five-credit laboratory science course for which the student is qualified (biology, chemistry, general science, or physics, but not computer science).

Phase Two**Person in Society****Study of Person Sequence 10**

PHIL 220 Philosophy of the Human Person

Social Science I Choose: PSYC 120, SOCL 120, PLSC 120, or ISSS 120

These two courses are normally to be taken in sequence or in a cluster in a 10-credit block.

Social Science II 5

Choose any five-credit course from among the following courses, as long as the discipline chosen is different from Social Science I taken in the preceding sequence:

ANTH 230 Cultural Anthropology

ECON 271 Principles of Economics: Macro

ECON 272 Principles of Economics: Micro

PLSC 205 Intro to American Politics

PLSC 231 Diversity and Change

PLSC 253 Intro to Political Theory

PLSC 260 Intro to Global Politics

PSYC 210 Personality Adjustment

SOCL 210 American Society and Culture

SOCL 222 Social Psychology

Students who major in one of the social science disciplines must take both the required core curriculum social science courses outside of their major department.

Theology and Religious Studies Phase II 5

Any approved five-credit course selected from TRST 200-299.

Phase Three Responsibility and Service

Ethics 5

Choose one of the following options:

- PHIL 312 Social Ethics
- PHIL 345 Ethics
- PHIL 351 Business Ethics
- PHIL 352 Health Care Ethics
- PHIL 353 Ethics in Science/Technology
- PHIL 354 Ethics and Criminal Justice
- PHIL 358 Communication Ethics
- PHIL 359 Professional Ethics
- TRST 380 Core Ethics: Christian Perspective

Theology and Religious Studies Phase III 5

Any approved five-credit course selected from TRST 300-399.

Interdisciplinary Course 3 to 5

Any three to five credits that deal with a contemporary issue from a multidisciplinary perspective. A list of approved interdisciplinary courses will be published in the quarterly schedule of classes and will usually be numbered 480 to 484.

Senior Synthesis 3

A course or project of at least three credits approved by the student's major department and the core director as fulfilling the objectives of the senior synthesis requirement.

The two sequences in Phase One must normally be completed before taking courses in Phase Two. All of Phase Two must be completed before a student begins Phase Three. Exceptions to taking the core curriculum in sequence or in phases must have permission of the dean of the College of Arts and Sciences or the director of the university core curriculum.

Some programs have specific requirements and special allowances for filling core. See individual program sections.

Essential Core for Undergraduates

Transfer students completing a first undergraduate degree who have fewer than 90 transfer credits will complete a minimum of 26 core credits at Seattle University: PHIL 210/220, TRST Phase II, TRST Phase III, interdisciplinary course, senior synthesis, and upper-division ethics.

Transfer Students with Junior Standing

Transfer students who matriculate with 90 or more credits take the following modified core curriculum:

I. Core Prerequisite Courses

All of Phase One (except PHIL 110), and Social Science I and II courses from Phase Two. These courses may be taken at Seattle University or by transferring equivalent credits. A direct transfer associate degree from a Washington community college fulfills these prerequisite courses.

II. Core Bridge Courses

To be taken only at Seattle University:

PHIL 210	Philosophy of the Human Person	5
TRST	Elective 200-level	5

Consult philosophy and theology departmental descriptions for specific requirements for entering other courses.

III. Core Essential Phase Three Courses

To be taken only at Seattle University:

Ethics	5
Interdisciplinary Course	3 to 5
Senior Synthesis	3

Consult each major for specific guidelines for courses that fulfill these essential Phase Three requirements. Each quarterly schedule of classes will indicate interdisciplinary courses, usually numbered 480 to 484, and senior synthesis offerings, numbered 487 through 490.

Second Undergraduate Degree Essential Core

For a student seeking a second baccalaureate degree, essential core to be completed at Seattle University is a minimum of 13 credits: religious studies, senior synthesis appropriate to the new degree, upper-division ethics. Students who have taken no previous courses in religious studies or theology should take an TRST 200-level course: students who have one or more previous courses in religious studies or theology should take a TRST 300-level course.

College of Arts and Sciences

Wallace D. Loh, PhD, Dean

Objectives

The College of Arts and Sciences, the oldest and largest undergraduate division of Seattle University, is the heart and foundation of Seattle University's mission to the undergraduate. That mission is to provide a liberal education in the humanities, the arts, and the social sciences along with selected graduate and professional programs.

Grounded in the Catholic and Jesuit intellectual tradition and respectful of their vision of the human person, the faculty of the college educate students for leadership, spiritual growth, responsible citizenship, and service through curricula both in the core program and in the majors that develop the whole person: the intellect, the imagination, the aesthetic sense, the capacity for ethical reflection, and skills of analysis and communication. Small classes, taught primarily by full-time faculty, and the availability of faculty advisers create a supportive as well as challenging environment for our community of learners.

It is the goal of the faculty that students be educated to think critically and to act responsibly so that they may be prepared to welcome the challenges of the future.

Organization

The college departments are Communication; Ecological Studies; English; Fine Arts; Foreign Languages; History; Military Science; Philosophy; Political Science/Public Administration; Psychology; Sociology/Criminal Justice; Theology and Religious Studies.

The program divisions are Addiction Studies; Honors; International Studies; Liberal Studies; Prelaw; and Premajor. A certificate program is offered in Addiction Studies. Each department chair or program director, in collaboration with the faculty, arranges study programs and counsels individual students. All programs are coordinated and supervised by the dean of the college. Students wishing to inquire about programs in detail should consult either the dean or the respective department chair or program director.

Admission Requirements

Students entering the college must satisfy all entrance requirements for the university as outlined in the Admission section in this bulletin. Some departments list further requirements for admission into certain major programs. Concerning these, the respective departmental sections in this bulletin should be consulted.

Degrees Offered

- Bachelor of Arts
- Bachelor of Criminal Justice
- Bachelor of Public Administration
- Bachelor of Science

General Program Requirements

Students in the College of Arts and Sciences must satisfy the core curriculum requirements of the university given in this bulletin. Additionally, the College requires of all students a second five-credit course in history chosen from either HIST 121 or HIST 231.

All students with a major in the College of Arts and Sciences must also demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. It is strongly recommended that students fulfill this program requirement in their first year. Students educated to the age of 16 in a language other than English are presumed to have satisfied the goal of this requirement. Beginning summer term 2000, a three course, 15 quarter credit sequence of American Sign Language at the college level will satisfy this requirement. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not also be used to fulfill major requirements.

A minimum cumulative grade point average of 2.5 must be obtained in courses required by the majors and taken at Seattle University for degrees in the College of Arts and Sciences.

Additional specific requirements are set by the department or program division in which the student's major is pursued. For these requirements consult the respective sections in this bulletin.

Premajor

Premajor is a freshman and sophomore program for students who wish to explore academic programs and careers before committing themselves to a major program. See the Premajor section for more information.

Subject Majors

In all programs having a specific subject major, the number of required courses and hours varies according to the department or program division. The minimal number required in any subject major is 40 credits; majors in departments having core sequences must consist of 35 credits beyond the core sequence.

Addiction Studies Program

Charles Lawrence, PhD, Chair

Objectives

Addiction to alcohol and other drugs is the nation's major public health problem, with implications for family, business and industry, traffic safety, and the physical, mental, and spiritual health of millions of persons. The objective of these courses is to provide a strong background for work in treatment and rehabilitation, in education and prevention, in industry and in referral centers. They also supplement the training of degreed professionals as well as students preparing to work in psychiatry or psychology, nursing, social work, criminal justice, or allied fields.

Certificate in Alcohol/Drug Studies

Certificate candidates must meet regular University admission standards; students seeking only one or two classes may register as non-matriculated students. The certificate in Alcohol/Drug Studies is a combination of classroom instruction (18 credits) and supervised field experience (3 credits) under experienced counselors. The certificate program should be completed within three years. In the final term of coursework for the certificate, the student files a certificate application with the registrar. Deadlines are: for fall completion, apply by October 30; for winter, January 30; for spring, April 30; for summer, July 30. In order to earn the certificate in Alcohol/Drug studies, students must complete the following:

I. Certificate Program Requirements

Twenty-one credits in addiction studies, including:

Choose one of the following two courses	3
ADST 480 Introduction to Alcohol and Drug Addiction	
PSYC 480 Introduction to Alcohol and Drug Addiction	
ADST 402 Counseling, Alcohol and Drugs	3
ADST 407 Field Experience	3
ADST 414 Case Management and Advanced Clinical Skills	3
ADST 418 Addiction and the Family	3
ADST 428 Ethics & Law for Addiction Professionals	3
ADST 429 Pharmacology of Alcohol and Drugs	3

Please Note: A minimum cumulative grade point average of 2.5 must be earned in all coursework that applies to this certificate.

Addiction Studies Courses

ADST 402 Counseling, Alcohol and Drugs 3
 Patient-counselor relationships: principles and techniques. Intake and intervention vs. long-range therapy. Directive vs. non-directive counseling, motivation, confrontation. Legal and ethical responsibilities of alcohol/drug counselors. Role-playing, videotape playback. Prerequisite: ADST 480.

- ADST 407 Field Experience 3**
Supervised work in an agency, clinic, rehabilitation center or referral center. Oral and written reports by student required. Prerequisite: ADST 402. Mandatory CR/F grading. (Graduate counseling students may substitute COUN 552)
- ADST 408 Field Experience 2 3**
Supervised work in an agency, clinic, rehabilitation center or referral center. Oral and written reports by student required. Prerequisite: ADST 407. Mandatory CR/F grading.
- ADST 414 Case Management and Advanced Clinical Skills 3**
Procedures and skills used in alcoholism and other drug addiction referral and treatment agencies. Intake interview, client evaluation, case-writing, pre-sentence report, record keeping and confidentiality. (formerly titled Case Management and Record Keeping)
- ADST 417 Employee Assistance Programs 2**
EAPs offer assessment and referral services to all employees troubled by alcoholism, other drug problems, emotional distress, or family crises. Policies; implementing programs; training supervisors; evaluating cost-effectiveness.
- ADST 418 Addiction and the Family 3**
Study of the family system; its function, purpose, and survival mechanisms. The process of family addiction; the disease and its dysfunction. Short-term versus long-term recovery goals. The intervention process; analysis and realistic goals. Prerequisite: ADST 480.
- ADST 426 Addiction and Mental Illness 2**
Dual diagnosis: when psychiatric disorders coexist with addiction. Psychiatric terminology, clinical symptoms of mental illness; use of DSM-IV in differential diagnosis; treatment and referral. Prerequisite: ADST 480.
- ADST 428 Ethics and Law for Addiction Professionals 3**
Common problems of counselors and administrators: rights of patients, confidentiality, discrimination, incompetence, fees, personal relationships with patients, inter- and intra-professional relationships. Cooperation with A.A., other twelve-step groups. (formerly titled Ethics for Addiction Professionals)
- ADST 429 Pharmacology of Alcohol and Other Drugs 3**
Pharmacology and physiology of psychoactive drugs including alcohol, prescription and non-prescription drugs. Interactions among drugs, poly-drug abuse. Actions of drugs on the central nervous system; damage to the brain, liver and other organs. Recovery from addiction. Prerequisite: None.
- ADST 480 Introduction to Alcohol and Drug Addiction 3**
History, scope, physiological, social, psychological, and family aspects of alcohol and other drug problems. Impaired driving. Progression and symptoms of addiction; types of alcoholics. Nature of addictive diseases: causality, treatment, and prevention. This course will satisfy the core interdisciplinary requirement. (Also offered as Psyc 480)
- ADST 491 Special Topics 1 to 5**
- ADST 492 Special Topics 1 to 5**
- ADST 493 Special Topics 1 to 5**
- ADST 496 Independent Study 1 to 3**
Open only to students with sufficient academic background to pursue independent study. Prerequisite: Permission of Director.

Communication

Jeffrey S. Philpott, PhD, Chair

Objectives

The Communication Department provides courses designed to give students an awareness of the role of communication in society, as well as practical experience in developing their talents in oral, written, and visual communication. The communication studies courses offer a blend of theoretical understanding and practical experience in a variety of contexts, including interpersonal communication, small group communication, and organizational communication.

The journalism and mass communication courses develop students' competence in gathering and disseminating stories through the mass media, using reporting, writing, and visual skills. Journalism and mass communication majors can emphasize preparation for journalistic careers in print, broadcast, or computer media, or public relations careers for government or organizations.

Degree Offered

Bachelor of Arts

Majors Offered

Communication Studies

Journalism/Mass Communication

(with specialization in either journalism or public relations)

Students are restricted to completing only one major or minor within the Communication Department. For example, students may not double major in Communication Studies and Journalism, or major in Journalism and earn a minor in Communication Studies.

Minors Offered

Communication Studies

Journalism/ Mass Communication

Teacher Education

The teacher preparation program is a graduate-level program only. Those students planning to become elementary teachers or secondary journalism or speech teachers should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic major as well as the specific requirements for admission to the MIT program.

Bachelor of Arts

Major in Communication Studies

In order to earn the bachelor of arts degree with a major in communication studies, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (PHIL 358 recommended)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary Course (CMJR 480 recommended)	.....	3 to 5
Senior Synthesis (CMJR 490 required*)	.....	5

See detailed core curriculum information in this bulletin.

*Major requirement

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135 or equivalent..... 15

Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Communication major requirements.

Choose one of the following courses: 5

HIST 121 Studies in Modern Civilization

HIST 231 Survey of the United States

III. Major Requirements*

Sixty credits in communication courses, including:

Area I—Communication Foundation

CMJR 205 Messages in Action 5

CMJR 225 Dynamics of Communication 5

CMJR 245 Media, Society, and Individual 5

CMJR 400 Communication Rights and Law..... 5

Area II—Rhetorical Study

CMJR 230 Public Speaking 5

CMJR 350 Persuasion 5

CMJR 431 Communication and Motives 5

Area III— Social Science

Choose three social science courses (with approval of adviser) from the following: ... 15

CMJR 355 Interpersonal Communication

CMJR 361 Small Group Communication

CMJR 383 Organizational Communication

CMJR 384	Conflict Resolution
CMJR 385	Cross-Cultural Communication

Area IV—Communication Electives

Choose 300 - 400-level communication electives (with adviser approval) 10

*Courses taken to fulfill major requirements may not simultaneously be used to fulfill Core or college requirements. For example, a single course cannot count as both a Core interdisciplinary course and a major elective.

Bachelor of Arts Major in Journalism/Mass Communication with Specialization in Journalism

In order to earn the bachelor of arts degree with a major in journalism/mass communication with a specialization in journalism, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/department grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (PHIL 358 recommended)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary Course (CMJR 480 recommended)	.....	3 to 5
Senior Synthesis (CMJR 489 required*)	.....	5

See detailed core curriculum information in this bulletin.

*Major requirement

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, audit, or correspondence basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Journalism major requirements.

Choose one of the following two courses:	5
HIST 121 Studies in Modern Civilization	
HIST 231 Survey of the United States	

III. Major Requirements*

Sixty credits in communication courses, including:

Area I—Communication Foundation

CMJR 205 Messages in Action	5
CMJR 225 Dynamics of Communication	5
CMJR 245 Media, Society, and Individual	5
CMJR 400 Communication Rights and Law	5

Area II—Additional Major Requirements

CMJR 210 Introduction to Media Writing	5
CMJR 220 Media Writing II	5
CMJR 300 Investigative Information Gathering	5

Choose one of the following four courses:

CMJR 305 Broadcast Writing	
CMJR 310 Public Relations Writing	
CMJR 315 Literary Journalistic Writing	
CMJR 320 Persuasive Writing	

Choose one of the following two courses:

CMJR 330 Introduction to Graphic Communication	
CMJR 335 Introduction to Video Communication	

Choose 300 - 400-level communication electives, approved by adviser

Choose practice/internship from CMJR 280-2, 380-2, or 495

*Courses taken to fulfill major requirements may not simultaneously be used to fulfill Core or college requirements. For example, a single course cannot count as both a Core interdisciplinary course and a major elective.

Bachelor of Arts Major in Journalism/Mass Communication with Specialization in Public Relations

In order to earn the bachelor of arts degree with a major in journalism/mass communication with a specialization in public relations, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/department grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110 Freshman English	5
PHIL 110 Introduction to Philosophy and Critical Thinking	5
HIST 120 Origins of Western Civilization	5
ENGL 120 Masterpieces of Literature	5
MATH 107 or 110 or above	5
Lab Science	5
FINR 120 or approved fine arts alternate	5
PHIL 220 Philosophy of the Human Person	5

Social Science I 5
 Social Science II (different discipline from Social Science I) 5
 Theology and Religious Studies Phase II (200-299) 5
 Ethics (PHIL 358 recommended) 5
 Theology and Religious Studies Phase III (300-399) 5
 Interdisciplinary Course (CMJR 480 recommended) 3 to 5
 Senior Synthesis (CMJR 489 required*) 5

See detailed core curriculum information in this bulletin.

*Major requirement

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent 15

Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Journalism major requirements.

Choose one of the following two courses: 5

- HIST 121 Modern Western Civilization
- HIST 231 Survey of the United States

III. Major Requirements*

Sixty credits in communication courses, including:

Area I—Communication Foundation

CMJR 205 Messages in Action 5
 CMJR 225 Dynamics of Communication 5
 CMJR 245 Media, Society, and Individual 5
 CMJR 400 Communication Rights and Law 5

Area II—Additional Major Requirements

CMJR 210 Introduction to Media Writing 5
 CMJR 220 Media Writing II 5
 CMJR 370 Public Relations: Cases and Strategies 5

Choose one of the following four courses: 5

- CMJR 305 Broadcast Writing
- CMJR 310 Public Relations Writing
- CMJR 315 Literary Journalistic Writing
- CMJR 320 Persuasive Writing

Choose one of the following two courses: 5

- CMJR 330 Introduction to Graphic Communication
- CMJR 335 Introduction to Video Communication

Choose 300 - 400-level communication electives, approved by adviser 10

Choose practice/internship from CMJR 280-2, 380-2, 495 5

*Courses taken to fulfill major requirements may not simultaneously be used to fulfill Core or college requirements. For example, a single course cannot count as both a Core interdisciplinary course and a major elective.

Minor in Communication Studies

In order to earn a minor in communication studies, students must complete 30 credits in communication, including:

CMJR 205	Messages in Action	5
CMJR 225	Dynamics of Communication	5
CMJR 245	Media, Society, and Individual	5
CMJR 400	Communication Rights and Law	5
CMJR	Approved electives (300-level or above)	10

See policy for minors on p. 46.

Minor in Journalism/Mass Communication

In order to earn a minor in journalism/mass communication, students must complete 30 credits in communication, including:

CMJR 205	Messages in Action	5
CMJR 210	Introduction to Media Writing	5
CMJR 220	Media Writing II	5
CMJR 245	Media, Society, and Individual	5
CMJR 400	Communication Rights and Law	5
CMJR	Approved elective (300-level or above)	5

See policy for minors on p. 46

Communication Courses

CMJR 205 Messages in Action 5

A first course in rhetorical thinking. A rhetorical examination of the relationship between message content and effect on audiences in a variety of media. Students develop skills of critical interpretation and evaluation of messages through the study of principles of message content and form and the analysis of the relationship between messages and their situation. Assignments include the analysis of messages as well as the construction of oral, written, and visual messages.

CMJR 210 Introduction to Media Writing 5

Narrative choices and styles common to the non-fiction mass media; using description and dialogue to effectively convey news and information; targeting stories for media audiences; writing with computers and on deadline; basic information gathering, using interviewing and library sources. Departmental permission required.

CMJR 220 Media Writing II 5

Writing and editing news and feature stories for the print media. Practice in writing, source development, and coverage of beats. Prerequisite: CMJR 210 and permission.

- CMJR 225 Dynamics of Communication 5**
Theoretical approaches to understanding the process of communication as it occurs in both interpersonal and media settings. Emphasis on research approaches and concepts from both social science and interpretive perspectives.
- CMJR 230 Public Speaking 5**
Theory and practice of constructing, presenting, and analyzing speeches. Emphasis on audience adaptation and the development of critical listening skills. Performance-oriented course. Departmental permission required.
- CMJR 240 Introduction to Photography 5**
Introduction to basic theory, techniques, and history of black-and-white still photography. Emphasis on use of the camera as an effective tool of communication. Students must have use of adjustable 35 mm camera. Lab fee.
- CMJR 245 Media, Society and Individual 5**
Contemporary problems and issues in communication, such as the effect of technology now and in the past, establishing credibility, ethical concerns about violence and gender or racial stereotyping, and the role of mass media in diverse political and economic systems.
- CMJR 280 Practicum I 1**
- CMJR 281 Practicum II 1**
- CMJR 282 Practicum III 1**
Supervised on-campus practice in writing and editing stories for media audiences.
- CMJR 291 Special Topics 1 to 5**
- CMJR 292 Special Topics 1 to 5**
- CMJR 293 Special Topics 1 to 5**
- CMJR 300 Investigative Information-Gathering 5**
Using interview, document, survey, and computer-assisted information-gathering techniques, including relational databases, to conduct research for journalism, public relations or other related professions. Prerequisite: CMJR 220 or permission.
- CMJR 305 Broadcast Writing 5**
Techniques of writing news and features for the electronic media. Writing for sound and pictures. Broadcast media style considerations. Prerequisite: CMJR 220 and permission.
- CMJR 310 Public Relations Writing 5**
Writing and editing press releases, reports and other materials for public relations. Prerequisite: CMJR 210 and permission.
- CMJR 315 Literary Journalistic Writing 5**
Study and practice of the literary tradition within journalism. Students develop non-fiction narrative articles using techniques of characterization, description, and plot development. Includes study of "New Journalism" authors. Prerequisite: CMJR 220 or permission.
- CMJR 320 Persuasive and Critical Writing 5**
Principles of persuasive writing for a media audience; constructing editorials, opinion columns, and critical reviews; study of classical and contemporary models. Prerequisite: CMJR 220 or permission.

- CMJR 330 Introduction to Graphic Communication 5**
Fundamentals of visual literacy and communication in the print and web media. Using computer-assisted graphic design to communicate ideas and information to audiences. Junior or senior standing.
- CMJR 332 Advanced Graphic Communication 5**
Advanced techniques of visual communication in the printed and/or interactive mass media. Specific ethical considerations in creating and using visual imagery. Prerequisite: CMJR 330.
- CMJR 335 Introduction to Video Communication 5**
Fundamentals of visual literacy and communication in the electronic media, particularly video. Emphasis on the reporting, scripting, voicing and editing of text and visuals for stories meant to inform audiences. Prerequisite: CMJR 305 or permission.
- CMJR 337 Advanced Video Communication 5**
Advanced techniques communicating in the electronic media, particularly through video. Emphasis on text and visuals for stories meant to inform or persuade audiences. Specific ethical considerations in using the medium are discussed. Prerequisite: CMJR 335
- CMJR 340 Advanced Photography 5**
Photographic "seeing" and printing technique. Individual projects emphasize advanced topics in black-and-white photography. Discussion of ethical issues confronting photographers. Students must have use of adjustable 35 mm camera. Lab fee. Prerequisite: CMJR 240 or equivalent.
- CMJR 350 Persuasion 5**
The study of communication as a means of personal and social influence. Includes examination of psychological and rhetorical foundations of persuasion and the critical analysis of persuasive messages in politics, advertising, and the mass media. Students learn techniques of persuasion and apply those techniques in a persuasive campaign. Discussions explore the ethical and social implications of contemporary persuasive techniques. Prerequisites: CMJR 205, 225, and 245 or permission.
- CMJR 355 Interpersonal Communication 5**
Communication theory and its application to both intimate and non-intimate relationships between two or more people. This course takes a developmental perspective, beginning with initial interactions and movement toward relational closeness and commitment, as well as disengagement. Examination of the expression of interpersonal needs, expectations, and tensions. Theory will be applied to experiential assignments designed to increase awareness of relational communication via observation, simulation, and interviews.
- CMJR 361 Small Group Communication 5**
Study of the dynamics of communication in everyday small groups, with particular attention to the behavior of decision-making groups. Examination of issues such as the development of group cohesion and identity, roles and norms, conflict, leadership, and decision-making processes. Students apply their understanding of these issues in group projects designed to provide practical experience in group performance. Prerequisite: CMJR 225 or permission.

CMJR 370	Public Relations: Cases and Strategies	5
Public relations as a management function; policies, procedures, and problems; program analysis and case study. Ethical issues confronting public relations professionals. Prerequisite: junior or senior standing.		
CMJR 380	Practicum IV	1
CMJR 381	Practicum V	1
CMJR 382	Practicum VI	1
Supervised work in writing, editing, or graphics on campus media. Prerequisite: CMJR 280-2.		
CMJR 383	Organizational Communication	5
Study of theories, process, and practice of communication in organizations, framed around the delicate balances between creativity and constraint, individual and collective needs, task and social outcomes in organizational life, from socialization to disengagement. Students participate in mini-internships in non-profit organizations, which ground more theoretical discussions and expand professional experience in organizational communication. Prerequisite: CMJR 225 or permission.		
CMJR 384	Conflict Resolution	5
Theory and techniques of conflict resolution and the application of theory to situational contexts. Focus placed on styles of resolving conflicts, situational appropriateness and effectiveness of styles, mediation theory, and games theory. Prerequisites: CMJR 225 and junior level standing.		
CMJR 385	Cross-Cultural Communication	5
Study of the relationship between culture and communication for the international encounter. This course is designed for an active and intense exchange between American and international students that examines how culture, second language acquisition, cross-cultural adaptation, communicative competence, and media representations dramatically shape the cross-cultural interaction. Readings include theoretical, social science, and literary texts. Oral skills will be developed through dyadic, small group, and class discussion. Written skills will be developed in narrative, interpretive, and analytical short papers. Outside activities designed to promote cross-cultural interaction.		
CMJR 391	Special Topics	1 to 5
CMJR 392	Special Topics	1 to 5
CMJR 393	Special Topics	1 to 5
CMJR 400	Communication Rights and Law	5
Philosophy and law of freedom of expression in the United States; judicial and legislative approaches defining the right to communicate. The impact of technology on legal freedoms. Study of specific legal issues such as libel, the right to privacy, regulation of pornography, the right to gather information. Prerequisite: senior standing or permission.		

- CMJR 431 Communication and Motives: Rhetorical Theory 5**
 Study of recurrent issues in the history of rhetorical thought from the ancient Greeks to 20th century America with special attention to the relationship between conceptions of rhetorical practice and social/cultural conditions. Exploration of the scope and nature of rhetoric in contemporary society. Students learn methods of rhetorical criticism and apply those critical approaches in class discussions and a major interpretive/analytic essay. Prerequisite: CMJR 350 and senior standing.
- CMJR 480 Interdisciplinary Core Courses 3 to 5**
 Title and content vary.
- CMJR 489 Senior Synthesis: Media and Social Responsibility 5**
 Examination of the role of journalism, public relations, mass media and media technology in contributing to social change and social justice in various communities and cultures. Special field projects or undergraduate thesis required. Senior synthesis course for all journalism/ mass communication majors. Prerequisite: CMJR 300 or CMJR 370 and senior standing. Open to non-majors with instructor permission.
- CMJR 490 Senior Synthesis: Advocacy and Social Change 5**
 Examination of the role of communication and the communicator in catalyzing social change and social justice in various communities. Advanced theories of persuasion and change. May involve undertaking field projects. Senior synthesis course for communication studies majors. Prerequisite: CMJR 431 or instructor permission, senior standing. Open to non-majors with instructor permission.
- CMJR 491 Special Topics 1 to 5**
- CMJR 492 Special Topics 1 to 5**
- CMJR 493 Special Topics 1 to 5**
 Title and content vary.
- CMJR 495 Internship 1 to 5**
 By permission only. When internship credit is required in the program, a maximum of three credits in transfer is allowed toward the requirement. See department for additional guidelines.
- CMJR 496 Independent Study 1 to 5**
 By permission only.

Criminal Justice

Charles Lawrence, PhD, Chair

Objectives

The Criminal Justice major gives students an overview of the entire criminal justice system, and then encourages them to consider the component parts. Courses are offered in the areas of research and planning, criminal law, punishment, criminal typologies, the victim, and corrections. Field placements crown this effort by placing senior students in agencies related to their special interests in order that they might test their acquired knowledge in a professional setting and situation.

The major is designed to accommodate entering freshmen, transfer students, and professionals. For professionals, especially corrections and police officers, we offer courses which may not have been covered in their academy training.

The driving spirit of the major is one which reflects the basic foundation of Jesuit education—reflection and action. We seek to develop a spirit of inquiry in students that ask “why not?” of things not tried. The major provides a facility for thinking critically and reflectively about the issues of justice, law, and the systems that deal with the offender and victim in our complex society.

Criminal justice graduates may qualify for careers in public and private law enforcement, crime prevention, juvenile justice facilities and programs, corrections, law enforcement training, education and planning, and other components of the criminal justice system, including law school and the subsequent practice of law.

Degree Offered

Bachelor of Criminal Justice

Major Offered

Criminal Justice

Minor Offered

Criminal Justice

Bachelor of Criminal Justice Major in Criminal Justice

In order to earn the bachelor of criminal justice degree, students must complete a minimum of 180 quarter credits with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5

Social Science II (different discipline from Social Science I)	5
Theology and Religious Studies Phase II (200-299)	5
Ethics (upper division)	5
Theology and Religious Studies Phase III (300-399)	5
Interdisciplinary Core Course	3 to 5
Senior Synthesis	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Criminal Justice major requirements.

Choose one of the following two courses:

HIST 121	Studies in Modern Civilization	5
HIST 231	Survey of the United States	

III. Major Requirements

Fifty-five credits in criminal justice, including:

CRJS 110	Introduction to Criminal Justice	5
CRJS 209	Criminological Theories	5
CRJS 300	Society and Justice	5
CRJS 302	Criminal Justice Research Methods	5
CRJS 312	Criminal Law	5
CRJS	Electives	30

Please Note: 1. Only thirty credits may transfer to the criminal justice major from a community college. 2. Students are encouraged to take PHIL 354 Ethics and Criminal Justice to satisfy their university core ethics requirement.

Minor in Criminal Justice

In order to earn a minor in criminal justice, students must complete 30 credits in criminal justice, including the following:

CRJS 110	Introduction to Criminal Justice	5
CRJS 209	Criminological Theory	5
CRJS 300	Society and Justice	5
CRJS Electives	.....	15

See policy for minors on p. 46.

Criminal Justice Courses

- CRJS 110 Introduction to Criminal Justice 5**
A survey of criminal justice processes from arrest through release, with attention to the interrelationship between the police, the courts, and corrections. CRJS 110 or equivalent is required for all criminal justice majors.
- CRJS 200 Deviance and Social Control 5**
Introduction to psychological and sociological theories of deviance with attention to the development of deviant identity, stigma management, and the cultural construction of deviance and social control of particular individuals and groups. Also offered as SOCL 219.
- CRJS 209 Criminological Theories 5**
A study of the theories from anthropology, biology, criminology, economics, political science, psychology, and sociology that are used to explain deviant and criminal behavior. Required for all criminal justice majors.
- CRJS 291 Special Topics 1 to 5**
- CRJS 292 Special Topics 1 to 5**
- CRJS 293 Special Topics 1 to 5**
- CRJS 300 Society and Justice 5**
An analysis of the meaning of justice in Western culture, and its relationship to the criminal justice system. Required for all criminal justice majors. Prerequisite: CRJS 110 or permission of instructor.
- CRJS 302 Criminal Justice Research Methods 5**
A review of statistical procedures and research designs used in criminal justice research. Introduction to the stages of the research process including design, data collection, analysis, and presentation. Required of all criminal justice majors. Prerequisite: CRJS 110 Introduction to Criminal Justice or eligibility as determined by instructor after first day of class.
- CRJS 303 Juvenile Justice 5**
Overview of the juvenile justice system and the handling of juveniles by the police, the courts, and corrections. Discussion of contemporary issues in juvenile justice, including youth violence and its prevention and control in American society.
- CRJS 306 Police and Society 5**
Study of the role of the police in society with attention to the origins of policing, the nature of police organizations and police work, and the relationship between the police and the public. (formerly titled Police and Community)
- CRJS 308 Behind Bars: The American Prison 5**
Survey of the history, philosophy, and practices of adult institutional and community corrections. Analysis of contemporary issues in corrections and correctional reform. (formerly titled Adult Corrections)
- CRJS 310 The American Court System 5**
Analysis of the structure and function of the American court system with attention to the roles of the judge, prosecutor, defender, defendant, jury, victim, witnesses and court administrator.

- CRJS 312 Criminal Law 5**
Study of the criminal law processes from detention to appeal. State and federal rules of criminal procedure. Understanding of policies, due process, self-incrimination, search and seizure, right to counsel, and other constitutional issues. Required of all criminal justice majors. Prerequisite: CRJS 110 or permission of instructor.
- CRJS 318 Sociology of Punishment 5**
A social history of the punishment response to the phenomenon of crime, considering the origins, principles, science, and society's justification for punishment. (formerly titled History and Philosophy of Punishment)
- CRJS 391 Special Topics 1 to 5**
- CRJS 392 Special Topics 1 to 5**
- CRJS 393 Special Topics 1 to 5**
- CRJS 400 Victimology 5**
A survey of the victim-offender relationship, including the origin and scope of victimology, the victim and society, the victim and the administration of justice, and the social reaction to victimization.
- CRJS 401 Criminal Profiling 5**
Study of the differentiation of criminal types in criminal justice policy and practice. Overview of the theoretical foundations of typology construction, criminal profiling, and the characteristics of offender types. The application of criminal typologies is discussed with attention to the use of typologies in police profiling, criminal law and courtroom proceedings, and correctional classification, management and treatment. (formerly titled Criminal Typologies)
- CRJS 405 Gender, Race and Crime 5**
Exploration of feminist and multicultural perspectives in criminology and justice. Analysis of sexism and racism in criminological theory and the administration of justice. Study of gender, ethnic and racial differences in aggression and criminal behavior with attention to the development of feminist and multicultural models of crime and justice. (formerly titled Feminist and Multicultural Criminology)
- CRJS 459 Research Practicum 5**
Hands-on experience conducting crime and justice-related research. Involvement in all phases of the research process — literature review, research design, contacting agencies, data collection and analysis, and preparation of a paper for presentation at an academic and/or professional conference. Students may develop an original project or may assist a faculty member with ongoing research. CR/F grading mandatory. Prerequisite: CRJS 302, upper division standing, and permission.
- CRJS 487 Senior Synthesis 3 to 5**
- CRJS 491 Special Topics 1 to 5**
- CRJS 492 Special Topics 1 to 5**
- CRJS 493 Special Topics 1 to 5**

CRJS 495	Internship	5
Direct observation, supervised practical experience, and academic study in a selected law enforcement agency or organization in the criminal justice system. CR/F grading mandatory. Prerequisite: upper division standing and permission.		
CRJS 496	Independent Study	1 to 5
CRJS 497	Directed Reading	1 to 5
CRJS 498	Directed Research	1 to 5

Ecological Studies

Trileigh Stroh, PhD, Director

Faculty:

David C. Brubaker, PhD, Associate Professor of Biology

Gary Chamberlain, PhD, Professor of Theology and Religious Studies

Daniel A. Dombrowski, PhD, Professor of Philosophy

David D. McCloskey, PhD, Associate Professor of Sociology

Trileigh Stroh, PhD, Assistant Professor of Ecological Studies

Richard Young, PhD, Associate Professor of Political Science

Objectives

Ecological Studies is a multi-disciplinary program that offers an innovative approach to understanding the environmental crisis and developing strategies for its solution. The program links the natural sciences with the social sciences and humanities in an integrative sequence that moves from the earth, to life, to human beings and spirit. Ecology provides the framework for seeing the whole of the web of natural systems, and for discovering humans' role within them.

In addition to a solid academic grounding, students will develop skills and knowledge through field studies and internships within the community. These experiences offer students opportunities to learn about problems first-hand, to test ideas in the field, and to understand whole systems in nature directly through study of various local and regional landscapes. Internships give students an opportunity to work with groups and leaders in the community while they provide first-hand experiences into issues and dynamics of environmental policies, organizations and agencies, advocacy, planning, and consulting.

Students majoring in ecological studies will be prepared to pursue further graduate studies in a variety of areas such as environmental studies, environmental law, forestry, sociology and history, geography, the political sciences, masters in teaching, and planning. They will find rewarding careers in federal, state, and local environmental regulatory agencies, consulting firms, environmental businesses, environmental education, and in a variety of local and regional land-use planning positions.

Degree Offered

Bachelor of Arts

Major Offered

Ecological Studies

Minor Offered

Ecological Studies

Bachelor of Arts Major in Ecological Studies

In order to earn the bachelor of arts degree with a major in ecological studies, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and a major grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
MATH	118 or 120 or above	5
Lab Science satisfied by ECST 100		*
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Social Science II (ECON 272 required)		5
Theology and Religious Studies Phase II (200-299)		5
Ethics		5
Theology and Religious Studies III satisfied by TRST 347		*
Interdisciplinary		3/5
Ecological Studies Senior Synthesis		3

II. College of Arts and Sciences Requirements

History requirement satisfied by HIST 351	
Foreign Language 115, 125, 135, or equivalent	15

Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations.

III. Major Program Requirements

Seventy-five credits, up to 20 of which may be counted both for the major and core requirements. Courses marked with an * could satisfy both the major and the core.

Area I. Natural Sciences: 20 credits, including:

ECST 100	Introduction to Geosystems*	5
ECST 200	Introduction to Ecological Systems	5

Choose one of the following two courses in physical science:

ISSC 120	Introduction to Geology
ISSC 207	Air and Water

- Choose one of the following four options in ecological science: 5
- BIOL 275 Marine Biology
 - BIOL 470 General Ecology
 - CEEGR 477 Selected Topics: Restoration of Aquatic Ecosystems
 - Any summer course from Blakely Island Field Studies
- Area II. Social Sciences:** 20 credits including:
- PLSC 300 Environmental Politics 5
 - SOCL 202 Human Ecology and Geography 5
- Choose one of the following four courses: 5
- ANTH 230 Cultural Anthropology*
 - PLSC 306 Native American Politics*
 - PLSC 456 The Human Prospect*
 - PSYC 481 Ecological Psychology*
- Choose a. or series b.: 5
- a. ECON 468 Natural Resources and Environmental Economics
 - b. CEEGR 476 Environmental Law and Impact Studies (3)
 - ECST 491 Special Topics: Impact Statement Analysis (2)
- Area III. Humanities:** 20 credits, including:
- HIST 351 Environmental History* 5
 - PHIL 309 Environmental Philosophy* 5
 - TRST 347 Religion and Ecology* 5
- Choose one of the following two courses: 5
- ECST 360 Nature Writing and Ecological Ethics
 - HIST 341 The Pacific Northwest
- Area IV. Statistical Methods:**
- Choose one of the following three courses: 5
- ECON 260 Business Statistics
 - PLSC 382 Research Methods
 - PSYC 201 Statistics I
- Area V. Internship**
- ECST 495 Internship and Colloquium 5
- Area VI. Electives**
- Choose any one of the following courses or any other courses from Areas I, II, or III above not previously used: 5
- ANTH 438 Anthropology of Pacific Northwest Peoples
 - BIOL 235 Invertebrate Zoology
 - BIOL 252 Taxonomy of Flowering Plants
 - ECON 478 Urban/Regional Economics
 - ECST 491,2,3 Special Topics
 - ECST 496 Independent Study
 - ECST 498 Directed Research
 - ISSC 481 To Feed the World*
 - PLSC 205 Introduction to American Politics*
 - PLSC 260 Introduction to Global Politics*

PLSC 305	The Policy Process
PLSC 309	Local and State Politics
PLSC 410	Urban Politics and Public Policy
SOCL 306	Population Dynamics

Please Note: 1. Students are strongly encouraged to seek a minor with their remaining elective credits in close consultation with their adviser. Suggested focused minors may be in biology, communication (journalism/mass communication), economics, political science or public program management, or sociology. A maximum of 15 credits from the major may be used towards a minor. 2. Additional courses meeting the major requirements will be footnoted in the ecological studies section of the Schedule of Classes each quarter. 3. A maximum of 20 credits of the ecological studies major courses may also be used to satisfy the university core requirements; courses so used will be included in the major GPA calculation.

Minor in Ecological Studies

In order to earn a minor in ecological studies, students must complete 35 credits in ecological studies, including:

ECST 100	Introduction to Geosystems	5
ECST 200	Introduction to Ecological Systems	5
HIST 351	Environmental History	5
PHIL 309	Environmental Philosophy	5
PLSC 300	Environmental Politics	5
SOCL 202	Human Ecology and Geography	5
TRST 347	Religion and Ecology	5

See policy for minors on p. 46.

Ecological Studies Courses

ECST 100 Introduction to Geosystems 5

Study of the earth's dynamic systems, including both earth history and analysis of interactive systems operating today. Emphasis on energy flow through the earth's interior, surface and atmosphere. Special topics focus on sustainability and society's interactions with geosystems. Four lecture/discussion hours, three laboratory hours per week.

ECST 200 Introduction to Ecological Systems 5

The study of the basic structure and function of natural ecosystem: energy flow and nutrient cycling. Exploration of the earth's major biomes and their importance to human existence. Case studies of human impacts on ecosystems of the Pacific Northwest and the practical application of ecological theory to ecosystem restoration. Four lecture/discussion hours, three laboratory hours per week; one weekend field trip. Prerequisites: ECST 100 and MATH 120 or 118.

ECST 360 Nature Writing and Ecological Ethics 5

Exploration of the rich tradition of nature writing from Thoreau to Annie Dillard in which an "ecological conscience" emerges in response to the environmental crises of our time.

ECST 391 Special Topics 1-5

ECST 392 Special Topics 1-5

ECST 480 Interdisciplinary core course 3-5

Title and content vary.

ECST 491	Special Topics	1-5
ECST 492	Special Topics	1-5
ECST 495	Internship	5
ECST 496	Independent Study	1-5
ECST 497	Directed Reading	1-5
ECST 498	Directed Research	1-5

Economics

Barbara M. Yates, PhD, Chairperson

Objectives

The courses in economics are designed to acquaint students with the economy in which they live and to relate these courses to all other social sciences. The analytical approach in the economics courses provides the students with the tools of analysis necessary to solve problems and make decisions in the government and private sectors. The major courses cover topics such as efficient allocation of resources, economic fluctuations, income distribution, domestic and international finance, urban problems, labor relations, and economic systems.

Students who prove especially able in economics courses are encouraged to pursue graduate work in preparation for professional status as economists in government, industry, or the academic world. A major in economics, in combination with selected courses in political science, communications, and business, provides excellent preparation for law school and MBA or MPA programs.

Degree Offered

Bachelor of Arts in Economics

Minor Offered

Economics

See Albers School of Business and Economics section for detailed information on degree program and the minor in economics.

English

Gerald T. Cobb, SJ, PhD, Chair

Edwin H. Weihe, PhD, Director, Creative Writing

Objectives

Interpreting texts requires the integration of many kinds of knowledge and the development of a wide variety of skills. In addition to what is known from disciplines such as history, psychology, philosophy, and religious studies, the reader needs, for example, imaginative awareness, critical and analytical powers of interpretation and the ability to respond with sensitivity. Responding with texts of one's own requires skills of invention, arrangement, control of tone, and mastery of style.

The English Department offers to its majors a program for learning how to understand, appreciate, and use effectively the rich resources of the English language. Through its service to the core curriculum, the department helps all students to achieve these ends in some way.

The department thus contributes to the university's mission of developing persons through a liberal education, at the same time that it prepares its majors and others for service in many professions; among these are law, social work, business, communications, teaching, politics, and foreign service.

Degree Offered

Bachelor of Arts

Majors Offered

English

English/Creative Writing

Minors Offered

English

English/Creative Writing

Policy for Honors Students

Graduates of the Honors Program who have completed all six of the literature courses in that program may earn an English minor by taking five more credits in English at the 300 or 400 level. They may earn an English major by taking 30 additional credit hours of English at the 300 or 400 level.

Honors Program graduates may earn an English/Creative Writing major by taking 25 credit hours of creative writing, and one five-credit literature course at the 300 or 400 level. They may earn an English/Creative Writing minor by taking 15 credit hours of creative writing at the 300 or 400 level.

Teacher Education

The teacher preparation program is a graduate-level program only. Students interested in teaching should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Second Endorsement for Teaching English

According to the Washington Administrative Code, teachers must meet minimum standards in a subject area in order to be qualified for a supporting endorsement in that subject area.

The standards for English include 24 quarter hours in the following subject areas: American literature, English literature, comparative literature, linguistics or structure of language, and writing/composition. Endorsement requirements do change and prior to embarking on a program it is wise to check with the Puget Sound Educational Service District Certification Office at 206-430-6902 for specific requirements.

The Writing Center

The Writing Center, with its own director and student consultants, offers writing assistance to all students. The Writing Center is managed by the English Department.

Creative Writing Program

The program's goal is to develop the writing skills and encourage the creative talents of undergraduate students. The curriculum for the major and minor includes both traditional literature and beginning and advanced creative writing courses in fiction, poetry, non-fiction, expressive writing, writing for children, and script writing. All writing courses include a substantial reading requirement, but with the emphasis on craft.

The faculty includes regular members of the English Department as well as writers-in-residence from the Northwest.

The broader learning environment of the creative writing program includes occasional weekend workshops, internships, a public Writers Reading Series, and study-abroad opportunities.

A student interested in the major or minor in English/Creative Writing should speak with the director.

Please Note: A student may not earn a major, or major and minor, in both English and English/Creative Writing.

Bachelor of Arts Major in English

In order to earn the bachelor of arts degree with a major in English, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5

Theology and Religious Studies Phase III (300-399)	5
Interdisciplinary Course	3 to 5
Senior Synthesis	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with majors in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill English major requirements.

Choose one of the following two courses:	5
HIST 121 Studies in Modern Civilization	
HIST 231 Survey of the United States	

III. Major Requirements

Fifty-five credits in English, including:

ENGL 252 Survey of British Literature I	5
ENGL 253 Survey of British Literature II	5
ENGL 254 Survey of American Literature	5
ENGL 332 Texts in Context	5
ENGL 333 Studies in Intertextuality	5

Choose one directed elective from each of three areas:

Biblical/Classical or Medieval Literature	5
International or U.S. Intercultural Literature	5
20th Century British or American Literature	5

English Electives (300-level or above)	15
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Please Note: 1. See course codes listed below for courses that satisfy the directed elective requirements. 2. A required course may not be used to satisfy two requirements simultaneously. Moreover, requirements of the core (for example, ENGL 110, ENGL 120, interdisciplinary courses and senior synthesis) do not satisfy requirements for the English major.

Bachelor of Arts

Major in English/Creative Writing

In order to earn the bachelor of arts degree with a major in English/Creative Writing, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110 Freshman English	5
PHIL 110 Introduction to Philosophy and Critical Thinking	5
HIST 120 Origins of Western Civilization	5
MATH 107 or 110 or above	5

Lab Science	5
FINR 120 or approved fine arts alternate	5
PHIL 220 Philosophy of the Human Person	5
Social Science I	5
Social Science II (different discipline from Social Science I)	5
Theology and Religious Studies Phase II (200-299)	5
Ethics (upper division)	5
Theology and Religious Studies Phase III (300-399)	5
Interdisciplinary Course	3 to 5
Senior Synthesis	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with majors in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations.

Choose one of the following two courses:	5
HIST 121 Studies in Modern Civilization	
HIST 231 Survey of the United States	

III. Major Requirements

Fifty-five credits in English, including:

Choose two of the following three courses:	10
ENGL 252 Survey of British Literature I	
ENGL 253 Survey of British Literature II	
ENGL 254 Survey of American Literature	
Choose one of the following two courses:	5
ENGL 332 Texts in Context	
ENGL 333 Studies in Intertextuality	
Choose one literature elective from either of the following two areas (300-400 level):	5
Biblical/Classical or Medieval Literature	
International or U.S. Intercultural Literature	
Choose two English literature electives (300-400 level)	10
Choose creative writing courses in at least three genres (300-400 level)	25
Fiction (ENGL 305, ENGL 318, ENGL 409)	
Poetry (ENGL 316, ENGL 406)	
Non-fiction (ENGL 304, ENGL 414)	
Drama/Film (ENGL 451, DRMA 404)	

Please Note: Courses satisfying requirements for university core do not also satisfy requirements for the English/Creative Writing major.

Minor in English

In order to earn a minor in English, students must complete 35 credits in English, including:

ENGL 110	Freshman English	5
ENGL 120	Masterpieces of Literature	5
Choose two of the following three courses		10
ENGL 252	Survey of British Literature I	
ENGL 253	Survey of British Literature II	
ENGL 254	Survey of American Literature	
ENGL Electives (300 - 400-level)		15

Please Note: Students who have completed the six literature courses in the honors program may complete the minor with one additional upper division English course of five credits. See policy for minors on p. 46.

Minor in English/Creative Writing

In order to earn a minor in English/Creative Writing, students must complete 35 credits in English, including:

ENGL 110	Freshman English	5
ENGL 120	Masterpieces of Literature	5
Choose two of the following three courses		10
ENGL 252	Survey of British Literature I	
ENGL 253	Survey of British Literature II	
ENGL 254	Survey of American Literature	
Creative Writing electives in at least two genres (300 - 400-level)		15

English Courses

Courses that fulfill requirements for the English major, the core curriculum, and the second endorsement for teaching English are designated by the following code:

A	American
BC	Biblical/Classical and Medieval
Co	Core
Int	International or U.S. Intercultural
L	Language
T	20th Century British and American
P	Pedagogy
W	Writing

ENGL 101 **Basic Writing** **5**

Instruction and practice in basic writing skills with emphasis on generating, organizing, and developing ideas in paragraphs and short essays. Emphasis, on control of sentence structure, punctuation, and standard usage. Through focus on the writing process, the course aims to increase students' self-confidence as writers. Counts toward graduation, but does not satisfy core writing requirements. W

- ENGL 110 Freshman English 5**
 Focuses on reading and writing as creative, interpretive, and argumentative acts. Seeks to develop the rhetorical skills of invention, arrangement, style and correctness. W and Co
- ENGL 120 Masterpieces of Literature 5**
 A study of narrative, drama, and poetry, primarily of American and British authors. The student will learn to appreciate how these literary forms embody metaphoric, poetic, and mythic ways of knowing; through writing assignments, students also learn how to respond to literature. Co
- ENGL 191 Special Topics 1 to 5**
- ENGL 192 Special Topics 1 to 5**
- ENGL 193 Special Topics 1 to 5**
- ENGL 201 Advanced Grammar and Vocabulary 5**
 A study of traditional English grammar as a means of addressing issues of usage, structural correctness of the English sentence, clarity and rhetorical effect, and a study of the principles of word formation, usage, and effective word choice. L
- ENGL 202 Advanced Grammar 3**
 A study of traditional English grammar as a means of addressing issues of usage, structural correctness of the English sentence, clarity, and rhetorical effect. May be taken in conjunction with ENGL 203. L
- ENGL 203 Vocabulary 2**
 A study of the principles of word formation, usage, and effective word choice. May be taken in conjunction with ENGL 202. L
- ENGL 252 Survey of British Literature I 5**
 A study of major British writers from the Medieval Period to the Eighteenth Century. Required of English majors. Prerequisite: ENGL 110. Offered twice a year.
- ENGL 253 Survey of British Literature II 5**
 A study of major British writers from the Eighteenth Century to the Modern Period. Required of English majors. Prerequisite: ENGL 110. Offered twice a year.
- ENGL 254 Survey of American Literature 5**
 A study of American authors from the Colonial through the Modern Period. Required of English majors. Prerequisite: ENGL 110. Offered twice a year.
- ENGL 291 Special Topics 1 to 5**
- ENGL 292 Special Topics 1 to 5**
- ENGL 293 Special Topics 1 to 5**
- ENGL 304 Expressive Writing 5**
 Strategies and techniques for writing the personal essay: autobiography, reflection, and other kinds of personal narrative. Special attention to development of prose style and authentic voice. Prerequisite: ENGL 110 and junior standing. Permission of the instructor is required. (Formerly ENGL 405) W

- ENGL 305 Writing Fiction 5**
Students will learn the theory, techniques, and practice of writing short stories by using their imaginations actively in order to present life and characters through fiction. W
- ENGL 308 Advanced Writing: Argument and Persuasion 5**
Argumentative writing for a public forum on issues of policy or other socially significant issues. Study of the rhetoric of argumentation with attention to the use of evidence, the internal logic of argument, and the appeal to an audience's sympathies. Development of a flexible prose style that can be adapted to a variety of rhetorical situations and audiences. Prerequisite: ENGL 110 and junior standing. W
- ENGL 316 Writing Poetry 5**
Study and practice in the modes and techniques of poetic composition. W
- ENGL 317 Mythology 5**
The study of the myths of ancient Greece as well as other cultures in order to understand their significance and meaning in the original cultural context and their enduring, archetypal implications. BC
- ENGL 318 Writing for Children 5**
Practice and craft-focused study of literature for children, emphasizing special challenges and responsibilities of the genre. W
- ENGL 319 Children's Literature 5**
Historical contexts and interpretations of folk and fairy tales, as well as the study of traditional and contemporary modes of narrative for young readers. The course includes interpretive and creative writing assignments.
- ENGL 320 The Bible as Literature 5**
A study of the Jewish and Christian Scriptures with emphasis on their status as texts that engage and shape a reader's response. Possible works to be studied include: Genesis, Exodus, 1 and 2 Samuel, Job, Isaiah, one of the Gospels, Romans, and Revelation. BC
- ENGL 323 The Literature of Greece and Rome 5**
A study of the literature of the classical world, with emphasis on Greece and Rome, depending on the instructor. Texts may include such works as *The Odyssey*, *The Oresteia*, *Oedipus Rex*, *Antigone*, *The Trojan Women*, and *Lysistrata* for the Greeks, and *The Aeneid*, selected plays by Plautus, the essays of Cicero, and the satires of Juvenal for the Romans. BC
- ENGL 326 Dante's Divine Comedy 5**
A study of "The Divine Comedy: Inferno, Purgatorio, and Paradiso," with emphasis on both its peculiarly medieval synthesis of thought and on its contemporary appeal as a classic. BC
- ENGL 328 Chaucer 5**
A study of Chaucer's *Canterbury Tales* and other works, such as his short poems or the *Troilus*. The emphasis is on Chaucer's craft as a storyteller, his creative use of sources, and the range of his wit. BC

- ENGL 330 Shakespeare 5**
A study of selected plays and sonnets of Shakespeare with special attention to his craft as a playwright and to contemporary approaches of criticism.
- ENGL 331 Shakespeare in Performance 5**
A study of Shakespeare's plays with emphasis on versions available both on film and in the theatre, especially those presented in Seattle and at the Ashland Festival. Emphasis, too, on student performance of the plays. Students will have the option of attending plays at Ashland or of doing an alternative project.
- ENGL 332 Texts in Context 5**
Examines texts in the context of a range of historical and cultural situations that enable students to uncover ways in which both writer and reader are situated in time. In preparation for the documented inquiry paper, the major writing project in the course, students will also develop basic library skills and the skill of reading the critical essay. (formerly ENGL 256)
- ENGL 333 Studies in Intertextuality 5**
By examining the power of influence and the conventions of allusion, genre and archetype, Studies in Intertextuality explores how texts are shaped by the network of other texts. Writing assignments include a formal paper of intertextual analysis and an imaginative transformation of a literary text. (formerly ENGL 257)
- ENGL 335 17th Century Literature: The Rhetoric and Poetics of Modern Revolutions 5**
The 17th century, a turbulent time in English history, witnessed cultural shifts in politics, religion, economics, and education. This course will study how writers were shaped by their culture and how they shaped it in turn.
- ENGL 338 Restoration and 18th Century Literature 5**
A study of the major British and European poets, satirists, and novelists between 1660 and 1800. Readings will be selected from such authors as Dryden, Swift, Pope, Johnson, Montagu, Fielding, DeFoe, Burney, Voltaire and Moliere.
- ENGL 340 British Romanticism 5**
An analysis and discussion of the major works of the Romantic period with emphasis on the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats.
- ENGL 343 The 19th Century English Novel 5**
A survey of the novel in a most flourishing period from Austen to Hardy. The works studied may include such authors as Dickens, Thackeray, the Brontes, Eliot, and Trollope.
- ENGL 346 Literary Realism 5**
Readings in the Realistic movement. Selections will vary but may include such authors as Twain, James, Flaubert, Tolstoy, Balzac, and Zola.
- ENGL 349 Late 19th Century Literature 5**
A study of 19th century literature in the context of its times. The focus is primarily on British writers such as Mill, Huxley, Arnold, Newman, Tennyson, and Browning, but, by way of comparison, other American or Continental writers may be introduced.

- ENGL 353 Modern Drama 5**
 An introduction to dramatists from 1890 to approximately 1950, whose works expressed and challenged the spirit of their age. The playwrights to be studied might include Ibsen, Shaw, Wilde, Chekhov, O'Neill, Pirandello, and Williams. T
- ENGL 358 Modernism in Art and Literature 5**
 A study of the movement of Modernism as expressed in Western art and literature from 1880 to approximately 1950. T
- ENGL 360 World Literature 5**
 An introduction to the important questions, concepts and methods of world literature, including the study of genres, themes, modes and symbols. Transcending the boundaries of national literatures, the course explores the relationship of literature to art, philosophy, history, and religion. The problem of literature in translation also receives attention. INT
- ENGL 361 Literature of India 5**
 Primary focus is the evolution of English language writing in South Asia with an emphasis on the literature of India. Course will also include writers of Indian origin who have emigrated to the West. Readings might include such writers as Rabindranath Tagore, R.K. Narayan, Raja Rao, Anita Desai, Nayantara Sahgal, Salman Rushdie. INT
- ENGL 362 African Literature 5**
 Twentieth century English language, sub-Saharan African narratives are the focus of this course, which might also include some French and Arabic narratives in translation. Discussion might include writers such as Wole Soyinka, Chinua Achebe, Ngugi wa Thiongo, Mariama Ba, Bessie Head, Tsitsi Dangaremba, Ben Okri, Dennis Brutus. INT
- ENGL 364 Post-Colonial Literature 5**
 The impact of the British Empire on the literature and culture of its colonies in Asia, Africa, Australia, and the Caribbean will be studied. Readings might include the theories of Frantz Fanon, Edward Said, Gayatri Spivak, Chinweizu and Ngugi, in addition to narratives by Chinua Achebe, Salman Rushdie, Buchi Emecheta, Jean Rhys, V.S. Naipaul. INT
- ENGL 369 Latin American Literature 5**
 Studies in the poetry and prose of Spanish-speaking Latin American countries as that literature expresses the history and native genius of Latin American culture, especially in the context of the interrelation between colonizers and colonized. Writers to be studied include such authors as Borges, Vargas Llosa, Garcia Marquez, Neruda, and Fuentes. INT
- ENGL 375 American Novelists 5**
 A study of the American contribution to the novel up to approximately 1950, with emphasis on the cultural diversity of the writers. Depending on the instructor, novelists may include Melville, Hawthorne, Henry James, Cather, Hemingway, Faulkner, Ellison, Baldwin, Oates, and others. A
- ENGL 377 American Poets 5**
 A study of the American spirit as sensed through the words of its poets. Special emphasis on Americans' problematic response to nature and to the nation's history from colonial times to the present day. A
- ENGL 379 Narrative Experiments in the Anglo-American Novel 5**
 A study of 20th century experimental novels by British and American writers such as Joyce, Wolfe, Faulkner, Stein, and others. T and A

- ENGL 383** **20th Century American Literature** **5**
 A survey of the principal authors and currents of thought from 1900 to the present. The course will include novels, poetry, and essays exemplifying such movements as realism, imagism, existentialism, southern agrarianism, and post modern experimentalism. T and A
- ENGL 388** **Film and Literature** **5**
 An introductory study of the basic principles and techniques of film art, with emphasis on the complementary contributions of the screenwriter, the director, the cinematographer, and the editor.
- ENGL 390** **Tutoring Writing: Theory and Practice** **5**
 Practical training for tutors. Study of theories of composition and the role of tutors within the writing process. Strategies for diagnosing writing problems, mastering effective conferencing skills to help writers reduce anxiety, generate ideas, solve organizational problems, and develop a fluent, error-free prose style. P
- ENGL 391** **Special Topics** **1 to 5**
- ENGL 392** **Special Topics** **1 to 5**
- ENGL 393** **Special Topics** **1 to 5**
- ENGL 400** **History of the English Language** **5**
 A study of the historical development of English, also serving as an introduction to linguistics: phonology, morphology, syntax and lexicon in their historical and literary contexts. L
- ENGL 406** **Advanced Poetry Writing** **5**
 Emphasis on craft, word usage, revision, and study of literary models of poetry, with students presenting their own work for group response. Prerequisite: ENGL 316. W
- ENGL 409** **Advanced Fiction Writing** **5**
 Intensive practice, with emphasis on revision, and study of the craft of fiction writing. Includes a craft-focused study of literary models. Prerequisite: ENGL 305. W
- ENGL 414** **Writing Non-Fiction** **5**
 Introduction to non-fiction genres which use fictional techniques, such as the personal essay, biography, autobiography, travel writing, documentaries, and social commentary. Includes study of non-fiction models. W
- ENGL 418** **Contemporary Literature** **5**
 A study of contemporary writers and their challenging experiments with prose fiction. Authors such as Hawkes, Lessing, Kundera, Gordimer, and Calvino will be studied. T
- ENGL 423** **Irish Literature** **5**
 A study of major figures of the Irish Renaissance and their cultural background in the late 19th century; writers such as Yeats, Joyce, O'Casey, and Synge will be studied. T
- ENGL 430** **Japanese Drama** **5**
 A study of the development of the major Japanese theatrical forms, together with a comparative examination of Greek and Elizabethan tragedy. INT
- ENGL 435** **Short Story Literature** **5**
 A study of the elements and historical development of the short story in its variety of types and emphases.

- ENGL 440 Women and the Creative Imagination 5**
 Through theoretical texts, literature, art, and films, this course explores the creative imagination of women as well as the perceptions by which women have been defined and define themselves. Recommended elective for the Women's Studies Minor.
- ENGL 441 International Women's Writing 5**
 This course is a study of narratives by women from Asia and Africa. Discussion will explore the relationship of the writing with social and political aspects of women's lives in different nations. Some of the writers to be discussed might include: Nawal El Saadawi, Bessie Head, Buchi Emecheta, Nadine Gordimer, Anita Desai, Mahadevi Varma, Bapsi Sidhwa. INT
- ENGL 451 Writing Scripts 5**
 Practice and study of script writing for film and television, emphasizing the genre formulas and the special challenges of collaborative media. W
- ENGL 480 Interdisciplinary Course 3 to 5**
 The exploration of contemporary issues and problems by means of several disciplines, including language and literature. Topics will include language and propaganda, love and marriage, and literature and society. Topics for each year are available through the English Department. Co
- ENGL 485 Literary Theory 5**
 Depending on the instructor, the course examines the texts of historical and contemporary critical theory and their influence on the writing and reading of literature. Other issues, such as the nature of art, beauty, and literature or the relationship between a society and its literature may also be discussed. Recommended especially for students preparing for advanced study. (formerly EN 490)
- ENGL 487 Senior Synthesis 5**
 Through the study of a selected theme, the learning of a liberal education, especially through literature, is applied to questions which prepare students for leadership and professional service. Themes such as "points of transition" or "freedom and community" will be offered in different years. Core option, phase three. Open to all qualified seniors. Co (formerly EN 495)
- ENGL 491 Special Topics 1 to 5**
- ENGL 492 Special Topics 1 to 5**
- ENGL 493 Special Topics 1 to 5**
- ENGL 495 Internship 1 to 5**
 Supervised service in which students apply and develop their skills as English majors working for a business or non-profit institution or agency. Open only to English majors with the permission of the director of interns. Graded CR/F. Prerequisites: junior or senior standing and 20 credits of upper-level English. (formerly EN 475)
- ENGL 496 Independent Study 1 to 5**
- ENGL 497 Directed Reading 1 to 5**
- ENGL 498 Directed Research 1 to 5**

Fine Arts

Carol Wolfe Clay, MFA, Chair

Objectives

The strength of the Fine Arts Department is a curriculum that offers foundational skills in three of the fine arts and is enhanced through a broad, liberal education in the Jesuit tradition. The sequence of each program, including a variety of electives, stimulates and enriches the development of the Fine Arts student.

The curricula of Fine Arts focus on the following areas:

Drama — Performance, Production, History

Visual Art — History and Studio: design, drawing, painting, sculpture, printmaking

Music — Theory, History, Applied, Performance

The Fine Arts program develops the student artist in practical ways, providing opportunities to:

- study with professional artists in the visual arts, theatre, and music through the guest artist program,
- study photography through an affiliation with the Photographic Center Northwest,
- explore Seattle's rich art community through theatre, opera, symphony, art gallery, and museum events,
- intern with a variety of Seattle arts organizations,
- perform, design and exhibit in Seattle University drama productions, choir concerts, and gallery shows,
- participate in colloquia on a given fine arts topic or event,
- exhibit or perform during spring quarter of the senior year,
- study art abroad.

The future for a fine arts graduate might include B.F.A. or M.F.A. programs in the arts, graduate teaching programs, or the beginning of a professional career in the arts.

Degree Offered

Bachelor of Arts

Majors Offered

Fine Arts

Visual Art

Art History

Drama

Minors Offered

Studio Art

Art History

Theatre Performance

Theatre Production

Music

General Program Requirements

All majors in the fine arts department must complete at least 20 credits in the major at Seattle University. Fine Arts transfer credits are subject to review which may include portfolio review, audition, exam, and/or interview.

Non-Major Students

As elective choices, most courses are open to students in other fields. Many complement the work in other majors (e.g., art history of English, history, philosophy, or religious studies) and the department cordially welcomes all members of the school community. Observe prerequisites where noted.

Courses open to auditors include FINR 120, ART 211, 212, 315, 316, 481; DRMA 100, 110, 211, 212; MUSC 211, 212. All other courses in the fine arts department are to be taken for credit.

Teacher Education

The teacher preparation program is a graduate-level program only. Students interested in teaching should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic major as well as the specific requirements for admission to the MIT program.

Bachelor of Arts Major in Fine Arts

The fine arts major builds on the cross-disciplinary nature of the Seattle University Fine Arts Department by allowing students to choose an area of emphasis within the arts (ART, DRMA, or MUSC) while they also integrate courses from other art forms. One student interested in musical performance might choose to bridge theatre and music, while another student might combine music and visual art courses to round out an emphasis in production theatre. Individual programs are designed in consultation with a fine arts faculty adviser. In order to earn the bachelor of arts with a major in fine arts, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3-5
Senior Synthesis (ART 490 or DRMA 490 or FINR 490 required)	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily

achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations.

Choose one of the following two courses:	5
HIST 121 Studies in Modern Civilization	
HIST 231 Survey of the United States	

III. Major Requirements

Sixty credits in fine arts, including 30-32 credits in an area of emphasis — DRMA, MUSC, or ART (includes Art/Visual or Art/Photography):

Drama Emphasis requirements:

DRMA 211 Theatre History and Literature I	5
DRMA 212 Theatre History and Literature II	5
DRMA 250 Acting I	5
DRMA 260 Design and Technical Theatre I	5
DRMA 350 Acting II	5
DRMA 360 Design and Technical Theatre II	5

Music Emphasis requirements:

MUSC 200 Music Theory I	5
MUSC 211 Music History Survey I	5
MUSC 212 Music History Survey II	5
MUSC 300 Music Theory II	5
MUSC Music Lessons	5
MUSC Music Ensemble	5

Art/Visual Emphasis requirements:

ART 100 Design and Color	5
ART 120 Drawing I	5
ART 316 20th Century Art	5
Choose one of the following two courses:	5
ART 211 Survey of Western Art I	
ART 212 Survey of Western Art II	
Choose two of the following courses:	10
ART 220 Drawing II	
ART 240 Painting I	
ART 250 Sculpture I	
ART 330 Relief Printmaking or ART 331 Monotype Printmaking	

Art/Photography Emphasis requirements:

ART 100 Design and Color	5
ART 160 Black and White Photography I	5
ART 260 Color Photography I	3
ART 265 Black and White Photography II	3
ART 316 20th Century Art	5
ART 317 History of Photography	5
ART 360 Black and White Photography III	3
ART 365 Light Control for Photography	3

In addition to the emphasis courses selected, (DRMA, MUSC, ART) choose the remaining credits, for a total of 60, in any combination. In consultation with the student's adviser, 10 of these credits must be from a discipline other than the area of emphasis (DRMA, MUSC, ART) and 10 must be taken at the 300-400 level Total 28-30

Fine Arts majors must also choose the required senior synthesis course in consultation with their faculty adviser.

Bachelor of Arts Major in Visual Art

In order to earn the bachelor of arts with a major in visual art, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking.	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
PHIL 220	Philosophy of the Human Person	5
Social Science I.	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3-5
Senior Synthesis (ART 490 required)	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations.

Choose one of the following two courses:	5
HIST 121 Studies in Modern Civilization	
HIST 231 Survey of the United States	

III. Major Requirements

Fifty-five credits in visual art, including:

ART 100	Design and Color	5
ART 120	Drawing I	5

ART 211	Survey of Western Art I	5
ART 212	Survey of Western Art II	5
ART 220	Drawing II	5
ART 240	Painting I	5
ART 250	Sculpture I	5
ART 316	20th Century Art	5
ART	Electives at the 300-400 level	15

Visual art majors must also take ART 490, Senior Thesis and Exhibit which satisfies the core senior synthesis requirement.

Please Note: Faculty will review the student portfolio upon completion of sophomore year, or equivalent, to determine eligibility to continue in the visual art major.

Bachelor of Arts Major in Art History

In order to earn the bachelor of arts with a major in art history, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis (ART 490 required)	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations.

Choose one of the following two courses:

HIST 121	Studies in Modern Civilization	5
HIST 231	Survey of the United States	

III. Major Requirements

Fifty-five credits in visual art, including:

ART 100	Design and Color	5
ART 120	Drawing I	5
ART 211	Survey of Western Art I, Ancient through Medieval	5
ART 212	Survey of Western Art II, Renaissance through Modern	5
ART 213	Survey of Asian Art	5
ART 460	Art History Seminar	5
ART	Electives; minimum 20 credits on 300-400 level; 5 credits may be studio courses	25

All art history majors must also take ART 490 Senior Synthesis, which satisfies the core senior synthesis requirement.

Bachelor of Arts Major in Drama

In order to earn the bachelor of arts with a major in drama, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis (DRMA 490 required)	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations.

Choose one of the following two courses:	5
HIST 121	Studies in Modern Civilization
HIST 231	Survey of the United States

III. Major Requirements

Fifty-five credits in drama, including:

DRMA 100	Voice and Diction	3
DRMA 110	Stage Mechanics	2
DRMA 211	Theatre History and Literature I	5
DRMA 212	Theatre History and Literature II	5
DRMA 250	Acting I	5
DRMA 260	Design and Technical Theatre I	5
DRMA 350	Acting II	5
DRMA 360	Design and Technical Theatre II	5
DRMA 415	Auditioning	2
DRMA 420	Directing	3
DRMA	Electives at the 300-400 level	15

Please Note: Requirements for graduation include participation in selected performance and production aspects of at least three Seattle University productions.

Minor in Studio Art

In order to earn a minor in studio art, students must complete 30 credits in visual art, including:

ART 100	Design and Color	5
ART 120	Drawing I	5
ART 316	20th Century Art	5
ART	Electives in consultation with an art adviser	15

Fine arts and visual arts majors may not earn a minor in studio art.

See policy for minors on p. 46.

Minor in Art History

In order to earn a minor in art history, students must complete 30 credits in visual art, including:

ART 211	Survey of Western Art I	5
ART 212	Survey of Western Art II	5
ART 316	20th Century Art	5
ART	Independent study/methods	5
ART	Electives in consultation with an art adviser	10

Fine arts and visual arts majors may not earn a minor in art history.

See policy for minors on p. 46.

Minor in Theatre Performance

In order to earn a minor in theatre performance, students must complete 30 credits in drama, including:

DRMA 100	Voice and Diction	3
DRMA 250	Acting I	5
DRMA 350	Acting II	5

Choose one of the following two courses:

DRMA 211	Theatre History I
DRMA 212	Theatre History II

- DRMA Electives in consultation with a drama adviser 12
 Fine arts and drama majors may not earn a minor in theatre performance.
 See policy for minors on p. 46.

Minor in Theatre Production

In order to earn a minor in theatre production, students must complete 30 credits in drama, including:

DRMA 110	Stage Mechanics	2
DRMA 260	Design and Technical Theatre I.....	5
DRMA 360	Design and Technical Theatre II	5

Choose one of the following two courses: 5

DRMA 211	Theatre History I	
DRMA 212	Theatre History II	
DRMA	Electives in consultation with a drama adviser	13

Fine arts and drama majors may not earn a minor in theatre production.
 See policy for minors on p. 46.

Minor in Music

In order to earn a minor in music, students must complete 30 credits in music, including:

MUSC 200	Music Theory I	5
MUSC 211	Music History Survey I	5
MUSC 212	Music History Survey II	5
MUSC 300	Music Theory II	5
	Music ensemble	5
	Music lessons	5

Fine arts majors may not earn a minor in music.
 See policy for minors on p. 46.

Fine Arts Courses

FINR 120 Experiencing the Arts 5

An exploration of the arts by experiencing the creative process, understanding elements of the artist's composition, and learning criteria of aesthetic judgment. The irreplaceable value of art in human culture will be studied and celebrated by attending musical, dramatic, and/or visual art events both locally and on campus. Faculty teach with an emphasis on one of the arts with interdisciplinary connections made to the other fine arts. Offered every quarter. Fulfills fine arts core requirement.

FINR 391	Special Topics	1-5
FINR 392	Special Topics	1-5
FINR 393	Special Topics	1-5
FINR 480	Interdisciplinary Core	3-5
FINR 490	Senior Synthesis	3-5
FINR 491	Special Topics	1-5
FINR 492	Special Topics	1-5

FINR 493	Special Topics	1-5
FINR 496	Independent Study	1-5
FINR 497	Directed Reading	1-5
FINR 498	Directed Research	1-5

Visual Art Courses

Eligibility to remain in courses for which students are registered will be based on the criteria listed within each course description, and will be determined by the instructor after the first day of class.

All courses taken at the Photographic Center Northwest must have a Seattle University ART designation to count for credit at Seattle University.

ART 100 Design and Color 5

Introduction to elements and principles of two-dimensional design and color theory as a foundation for visual art. Execution of specific design projects, individual and group critiques, creative thinking exercises to increase visual awareness, reflective writing, and attendance at local galleries and museums. Fulfills Fine Arts core requirement.

ART 120 Drawing I 5

Introduction to the principles of drawing through observation. Investigation of proportion, modeling, still life, and perspective with various drawing media. Introduction to aesthetic literacy, critical thinking, reflective writing, and attendance at local galleries and museums. Fulfills Fine Arts core requirement.

ART 160 Black and White Photography I 5

An introduction to black and white photography designed to teach camera operation, exposure techniques, film development, printing, and the elements of composition. Critical and creative thinking will be demonstrated through the exercise of aesthetic judgment and reflective writing. Lectures, demonstrations, critiques and discussions, and weekly slide presentations on noted photographers. Weekly reading assignments designed around the technical information presented in class. Students must have their own adjustable 35mm camera. No prerequisites. Fulfills Fine Arts core requirement.

ART 211 Survey of Western Art I: Prehistoric through Medieval 5

Broad historical overview of the architecture, sculpture, painting, and decorative arts of the cultures of the Ancient Near East and the West, ending circa 1400. Attention will be given to developing skills of visual literacy; examining art historical methodologies; and exploring connections with history, philosophy, anthropology, theology, and other art forms. Experiential aspect of the course will include visits to local galleries and museums. Fulfills Fine Arts core requirement.

ART 212 Survey of Western Art II: Renaissance through Modern 5

Broad historical overview of the architecture, sculpture, painting, and decorative arts of the cultures of Europe and the Americas, beginning circa 1400 and continuing to the present. Attention will be given to developing skills of visual literacy; examining art historical methodologies; and exploring connections with history, philosophy, anthropology, theology, and other art forms. Experiential aspect of the course will include visits to local galleries and museums. Fulfills Fine Arts core requirement.

- ART 213 Survey of Asian Art 5**
Examines selected topics in the history of East Asian art, with attention to developing visual literacy and cultural sensitivity. Draws on recent textual debates about the meaning and relevance of various forms of artistic expression to develop critical and analytic skills needed to understand and engage with the arts that have shaped our vision of Asia. Experiential aspect of this course will include visits to local galleries and museums. Fulfills Fine Arts core requirement.
- ART 220 Drawing II 5**
Application of drawing principles to the study of the human figure, landscape, and architecture. Investigation of proportion, advanced perspective and composition with various drawing media. Prerequisite: ART 120, or permission of instructor.
- ART 240 Painting I 5**
Introduction to the principles and processes of painting. Investigation into media manipulation, color, and composition with various subjects. Prerequisite: ART 100, ART 120, or permission of instructor.
- ART 250 Sculpture I 5**
The world art/craft tradition of ceramic sculpture with an emphasis placed on clay hand building skills: pinch, coil, slab construction. Execution of specifically assigned projects and exploration of glazing, decorating, and firing.
- ART 260 Color Photography I 3**
A beginning photography course designed to teach color printing and theory. Elements of design, composition and narrative will be discussed. Lectures, demonstrations, critiques, discussions, and slide presentations on the work of noted photographers. Weekly assignments on technical information, issues of composition, and image content. Students must have their own adjustable 35mm camera. Prerequisites: ART 160, or permission of instructor.
- ART 265 Black and White Photography II 3**
An intermediate course in black and white photography designed to teach advanced technical skills in film exposure and development, printing, composition, and narrative concepts. Lectures, demonstrations, critiques, discussions, and slide presentations. Weekly assignments on technical and conceptual information. Students must have their own adjustable 35mm camera. Prerequisites: ART 160, or permission of instructor.
- ART 291 Special Topics 1-5**
- ART 292 Special Topics 1-5**
- ART 293 Special Topics 1-5**
- ART 314 Art of the Florentine Renaissance 5**
First-hand examination of the art and ideas of Renaissance Florence, beginning in the late 14th century and ending in the mid 16th century. Attention devoted to in-depth visual analysis, as well as to the political, religious, and literary contexts in which these works were created. Readings from primary sources, and the vast scholarly literature on the Renaissance. Format: preparation in Seattle, guided 3-week immersion in Florence during summer, reflection and writing in Seattle. No prerequisites, although ART 212 Survey of Western Art II or equivalent strongly advised.

- ART 315** **Nineteenth-Century Art** **5**
Examination of European and American art from Neoclassicism through Post-Impressionism (1775-1905). Highlights connections with literature, history, and music. Readings emphasize new methodologies. No prerequisites, although ART 212 Survey of Western Art II or equivalent strongly advised.
- ART 316** **20th Century Art** **5**
Survey of visual art made during the last 100 years. Discussions grounded in the context of sweeping changes that characterize twentieth-century history, philosophy, and cultural production. Focus on painting and sculpture; film, architecture, and new media also included. No prerequisites, although ART 212 Survey of Western Art II or equivalent strongly advised.
- ART 317** **History of Photography** **5**
A survey of photography from its origins to contemporary use as a fine art. Attention to developing skills of visual literacy and exploring connections with history, philosophy, mass media and popular culture, and other art forms. Experiential aspects include visits to local galleries and museums. No prerequisites, although ART 212 Survey of Western Art or equivalent strongly advised.
- ART 318** **Art Traditions of Japan** **5**
A selective survey of major developments in Japanese painting, sculpture, ceramics, and prints, focusing on the Heian through Meiji periods. Examines the arts as a form of cultural expression and historical document. Attention to aesthetic traditions, narrative content, artistic techniques, and issues of connoisseurship.
- ART 319** **Arts of China** **5**
A chronological survey of the major artistic traditions of China. In addressing China's four-thousand year tradition of art production, particular attention is paid to traditions of landscape painting and Buddhist art and ceramics. Students are encouraged to relate the visual record of China to the vast textual history at their disposal.
- ART 320** **Drawing III** **5**
Application of drawing principles to the study of the human form, the landscape and architecture. Advanced research in perspective, value, and composition with various drawing media. Prerequisite: ART 220 or equivalent.
- ART 330** **Relief Printmaking** **5**
Studio problems and individual development in the relief printmaking process. Woodcut and linocut printmaking will be explored, as well as the creation of edition prints. Prerequisite: ART 100 or ART 120.
- ART 331** **Monotype Printmaking** **5**
Studio problems and individual development in monotype printmaking. Includes Chin-Collé, embossing, multiple overlays and color printing processes. Prerequisite: ART 100 or ART 120.
- ART 340** **Painting II** **5**
Continued study of principles and processes of painting while analyzing the theory and practice of painting. Emphasis on development of individual approaches to form and media. Prerequisite: ART 100, ART 120, ART 240, or permission of instructor. Offered every other year.

- ART 350 Sculpture II 5**
Advanced hand building techniques in clay. Emphasis on the creation of fine art through the development of concepts and content as realized through specifically assigned projects and freelance work. Prerequisite: ART 250 or permission of instructor. Offered every other year.
- ART 360 Black and White Photography III 3**
An advanced course in black and white photography designed to teach principles of the zone system and theory on portfolio development. Lectures, discussions, critiques, and slide presentations. Weekly shooting and reading assignments. Students must have their own adjustable 35mm camera. Prerequisites: ART 160, ART 265, or permission of instructor.
- ART 365 Light Control for Photography 3**
The use of artificial lighting and design techniques to create still lifes and portraits in the studio. Students work with both stobe and tungsten lighting equipment. Lectures, discussions, critiques, slide presentations, and demonstrations. Emphasis on mastering the equipment, composition of light and objects, and on image content. Students must have their own adjustable 35mm camera. Prerequisites: ART 160, ART 265, or permission of instructor.
- ART 391 Special Topics 1-5**
- ART 392 Special Topics 1-5**
- ART 393 Special Topics 1-5**
- ART 440 Painting III 5**
Advanced study in the theory and practice of oil and acrylic painting. Emphasis on the continuation of individual approaches to content, form and media. Prerequisite: ART 340 or equivalent.
- ART 450 Sculpture III 5**
Advanced study in the theory and practice of ceramic sculpture. Emphasis on the continuation of individual approaches to content, form, materials and methods. Prerequisite: ART 350 or permission of instructor.
- ART 460 Art History Seminar 5**
An advanced research seminar that builds on disciplinary skills learned in 200-300 level courses by engaging in an in-depth exploration of an issue, period, movement, or artist. Particular topic varies from year to year. Employs a seminar format to analyze current research in the discipline and to produce original student research of the highest quality.
- ART 480 Interdisciplinary Core Course 3-5**
Title and content vary.
- ART 481 Native American Issues and Art 5**
Examines the inter-cultural process that has shaped the contemporary arts, while focusing on the Native American ingredient. Guest lectures, articles and text will analyze historical and contemporary issues related to Native Americans in the arts. Written skills will be developed in micro-theme assignments with a final project presentation based upon individual research. Outside activities will be encouraged with the local native arts community. Prerequisite: Senior standing or permission of instructor. Fulfills interdisciplinary core requirement.

ART 490	Senior Thesis and Exhibit	3-5
Individual and group activities include: senior synthesis paper, artist's statement, portfolio, resume, and a group art exhibit including artist's statement, matting, framing, publicity, reception. Prerequisite: senior standing and eligibility for graduation.		
ART 491	Special Topics	1-5
ART 492	Special Topics	1-5
ART 493	Special Topics	1-5
ART 495	Art Internship	1-5
Supervised work experience or apprenticeship in specific visual art related area of study in the community. Open only to fine art or visual art majors with permission of faculty adviser. Graded CR/F. Prerequisite: junior or senior standing.		
ART 496	Independent Study	1-5
ART 497	Directed Reading	1-5
ART 498	Directed Research	1-5
Prerequisites: art majors with senior standing only.		

Drama Courses

Eligibility to take these courses will be determined by the instructor after the first day of class.

DRMA 100	Voice and Diction	3
Development of the speaking voice as an instrument of communication on or off stage. Exercises in relaxation, breathing, breath control, voice production, phonetics. Offered every other year.		
DRMA 110	Stage Mechanics	2
Introduction to the working theatre: theatre architecture, production organization, the role and function of the stage manager. Offered every other year.		
DRMA 211	Theatre History and Literature I	5
Theatre history within the context of cultural and social ideas. A comprehensive multicultural correlation of the history and growth of theatre and its literature. The beginnings of theatre through the renaissance. Experiential aspect of the course will include attendance at local theatre performances. Fulfills Fine Arts core requirement.		
DRMA 212	Theatre History and Literature II	5
Theatre history within the context of cultural and social ideas. A comprehensive multicultural correlation of the history and growth of theatre and its literature. Seventeenth century through the present. Experiential aspect of the course will include attendance at local theatre performances. Fulfills Fine Arts core requirement.		
DRMA 250	Acting I	5
Introduction to acting using the body as an element of composition: movement, body language, mask work, and sensory awareness. Develops aesthetic literacy and critical thinking using mime, improvisation, storytelling, reflective writing and attendance at local theatre performances. (formerly DR 220.) Fulfills Fine Arts core requirement.		

DRMA 450	Advanced Acting	3
Acting with emphasis on language and scene study. Develops vocal techniques and style. Prerequisite: Acting I, II, or permission of instructor.		
DRMA 460	Advanced Design	3
Advanced projects in theatrical set, lighting and costume design. Prerequisite: Design and Technical Theatre I, II, or permission of instructor.		
DRMA 480	Interdisciplinary Core	3-5
Title and content vary.		
DRMA 490	Senior Synthesis	3-5
DRMA 491	Special Topics	1-5
DRMA 492	Special Topics	1-5
DRMA 493	Special Topics	1-5
DRMA 495	Drama Internship	1-5
Supervised work experience or apprenticeship in specific drama related area of study in the community. Open only to Fine Art or Drama majors with permission of faculty advisor. Graded CR/F. Prerequisites: junior or senior standing.		
DRMA 496	Independent Study	1-5
DRMA 497	Directed Reading	1-5
DRMA 498	Directed Research	1-5
Prerequisites: Drama majors with senior standing only.		

Music Courses

Eligibility to take these courses will be determined by the instructor after the first day of class.

All courses which may be taken more than once are indicated with an asterisk (*) next to the credits. There is a private music lesson fee. (See Tuition and Fees).

MUSC 110	Piano Lessons	*1-2
Private lessons in piano. Mandatory CR/F. Maximum 12 credits. Prerequisite: permission of instructor.		
MUSC 111	Voice Lessons	*1-2
Private lessons in voice. Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 140 or permission of instructor.		
MUSC 119	Wind Instrument Lessons	*1-2
Flute, clarinet, saxophone, oboe, bassoon. Mandatory CR/F. Maximum 12 credits. Prerequisite: permission of instructor.		
MUSC 123	Guitar Lessons	*1-2
Private lessons in guitar. Mandatory CR/F. Maximum 12 credits. Prerequisite: permission of instructor.		
MUSC 130	University Chorale	*1
Singing and performance skills, musical interpretation, and sight reading. Maximum 12 credits. Prerequisite: permission of instructor.		

- MUSC 131 Chamber Singers** *1
A select, auditioned choir of approximately 27 singers who perform at many on- and off-campus functions as well as in concerts and masses sung by the Chorale. Maximum 12 credits. Prerequisite: audition and permission of instructor.
- MUSC 135 Instrumental Ensemble** *1
Small ensemble performance experience for persons proficient in voice or an instrument. Maximum 12 credits. Prerequisite: permission of instructor.
- MUSC 140 Beginning Voice Class** *1
- MUSC 141 Beginning Guitar Class** *1
- MUSC 142 Electronic Piano Class** *1
Maximum 3 credits.
- MUSC 200 Music Theory I** 5
A study of the language of music. The development of musical skills through reading, writing, musical analysis, ear training and sight singing. Study of the elements and principles of musical design lead to an exploration of the creative process. Attendance at local musical performances. Offered every other year. Fulfills fine arts core requirement. (formerly titled Comprehensive Musicianship I.)
- MUSC 211 Music History Survey I** 5
History of Western music from Medieval to the 20th Century. Experiential aspect of the course will include attendance at local musical performances. Offered every other year. Fulfills Fine Arts core requirement.
- MUSC 212 Music History Survey II** 5
History, traditions, and influence of twentieth century music. The variety of topics may include: the music of America, the history of pop and rock 'n' roll, world music, the history of jazz. Experiential aspect of the course will include attendance at local musical performances. Offered every other year. Fulfills Fine Arts core requirement.
- MUSC 291 Special Topics** 1-5
- MUSC 292 Special Topics** 1-5
- MUSC 293 Special Topics** 1-5
- MUSC 300 Music Theory II** 5
An expansion of the techniques learned in MUSC 200. Prerequisite: MUSC 200 or permission of instructor. Offered every other year. (formerly titled Comprehensive Musicianship II.)
- MUSC 310 Piano Lessons** *1-2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 110 or permission of instructor.
- MUSC 311 Voice Lessons** *1-2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 111 or permission of instructor.
- MUSC 319 Wind Instrument Lessons** *1-2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 119 or permission of instructor.
- MUSC 323 Guitar Lessons** *1-2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 123 or permission of instructor.

MUSC 330	University Chorale II	*1
An expansion of the techniques learned in MUSC 130 along with increased responsibility. Maximum 9 credits. Prerequisite: MUSC 130 or permission of instructor.		
MUSC 331	Chamber Singers II	*1
An expansion of the techniques learned in MUSC 131 along with increased responsibility. Maximum 9 credits. Prerequisite: MUSC 131, audition and permission of instructor.		
MUSC 335	Instrumental Ensemble II	*1
An expansion of the techniques learned in MUSC 135 along with increased responsibility. Maximum 9 credits. Prerequisite: MUSC 135 or permission of instructor.		
MUSC 391	Special Topics	1-5
MUSC 392	Special Topics	1-5
MUSC 393	Special Topics	1-5
MUSC 480	Interdisciplinary Core	3-5
MUSC 491	Special Topics	1-5
MUSC 492	Special Topics	1-5
MUSC 493	Special Topics	1-5
MUSC 495	Music Internship	1-5
Supervised work experience or apprenticeship in specific music related area of study in the community. Open only to fine arts majors with permission of faculty adviser. Graded CR/F. Prerequisite: junior or senior standing.		
MUSC 496	Independent Study	1-5
MUSC 497	Directed Reading	1-5
MUSC 498	Directed Research	1-5
Prerequisites: Music minors with senior standing only.		

Foreign Languages

Victor Reinking, PhD, Chair

Objectives

The foreign language programs in French, German, Japanese, Spanish, and Latin recognize academic, cultural, and practical purposes:

Academic

Foreign language study aims at broadening the scope of the student's intellectual development by affording both a facility in foreign languages and knowledge of other cultures. This end is achieved through the major programs in foreign languages or double majors that couple a major or minor in a foreign language with a major in another field.

Cultural

Learning about another culture and civilization — its history, geography, literature, and art — through the medium of its language leads to a better understanding of one's self and the world in which we live. To achieve this goal, all foreign languages are taught in their cultural context. Courses in French, German, Spanish, Italian, and Japanese are taught in the vernacular.

Practical

Career opportunities involving foreign languages are expanding. For the university graduate with a specialization in a particular field and with proficiency in foreign languages, openings exist in the following fields: teaching, social work, transportation, military, foreign service, international law, engineering, librarianship, foreign trade, and international business. In addition, many graduate programs require proficiency in foreign language.

Degree Offered

Bachelor of Arts

Majors Offered

French
German Area Studies
Spanish

Minors Offered

French
German
Spanish
Japanese

International Studies

A foreign language concentration is also offered as an option in the international studies major. Please see International Studies section.

Intensive Programs

Intensive programs offered in French and Spanish during the summer allow the student to complete the first-year basic language course (15 credits) in one quarter.

Credit by Examination and Waiver

The Foreign Languages Department reserves the right to waive specific courses for students who demonstrate, by examination, achievement at the college level. Courses may be waived, allowing substitution of related electives, or credit may be obtained by meeting the university's requirements for credit by examination.

Study Abroad

The foreign languages department offers a number of study abroad programs. In order to be eligible for the French-in-France program in Grenoble, France, students must have completed first-year French or equivalent. This can be done during the academic year or in the intensive summer language program. Students then spend winter and spring abroad studying language, culture, and civilization at the University of Grenoble under the direction of Seattle University faculty.

The Latin American Studies program, offered winter and spring quarters at the Universidad Ibero-Americana in Puebla, Mexico, requires at least one year of college-level Spanish prior to participation.

German-in-Germany is offered spring quarter only in Frankfurt/Oder, Germany. Students should have completed the first two quarters of university level German language or equivalent to be able to participate.

The university has established reciprocal exchange programs with international universities. Before attending Karl-Franzens Universitaet in Graz, Austria, a student must have at least two years of college-level German, because integration into the Austrian university means that all course work will be in German. An exchange program with the comparative culture faculty at Sophia University in Tokyo, Japan, where course work is in English, allows direct enrollment with one year of previous Japanese language. An agreement with Taejon University in Taejon, Korea, allows students to study in the Korean language any of the regular university courses for which the student is qualified. By special arrangement studies in English are also available. Students from any major may apply for these programs, which allow continued enrollment and financial aid benefits at Seattle University.

A reciprocal exchange between the university's Science and Engineering Project Center has also been established with Ecole Superieure de Technologic Electronique. See engineering advisers for information. Majors in business and economics may apply for the exchange program in The Netherlands with Universiteit Maastricht.

Seattle University is also affiliated with the Council for International Educational Exchange, a consortium of colleges and universities which sponsor a variety of academic programs around the world. Federal loans and federal grants can be continued through the Seattle University Financial Aid Office, but no university grants or scholarships are available for CIEE programs.

Teacher Education

Teacher preparation is a graduate-level program only. Students planning to become elementary or secondary foreign language teachers should major in one of the following: French, Spanish, or German Area Studies. Those interested in teaching should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Bachelor of Arts Major in French

In order to earn the bachelor of arts degree with a major in French, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Choose one of the following two courses:	5
HIST 121	Studies in Modern Civilization
HIST 231	Survey of the United States

III. Major Requirements

Fifty-five credits in French, including:

FREN 115	French Language I	5
FREN 125	French Language II	5
FREN 135	French Language III	5
FREN 215	French Language IV	5
FREN 225	French Language V	5
FREN 235	French Language VI	5
FREN 315	French Culture and Civilization	5
FREN 325	Introduction to French Literature	5
FREN	Electives (400 level)	15

Please Note: Students who waive elementary language courses may meet the 55-credit requirement by substituting approved courses in other disciplines that relate to their foreign language studies or by taking courses in another language.

Bachelor of Arts

Major in German Area Studies

In order to earn the bachelor of arts degree with a major in German area studies, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Choose one of the following two courses:

HIST 121	Studies in Modern Civilization	5
HIST 231	Survey of the United States	

III. Major Requirements

Fifty-five credits in German language and German area studies, including:

GERM 115	German Language I	5
GERM 125	German Language II	5
GERM 135	German Language III	5
GERM 215	German Language IV	5
GERM 225	German Language V	5
GERM 235	German Language VI	5
GERM 315	German Culture and Civilization	5

Choose four of the following seven courses:

HIST 313	Europe in the Age of Industrialization and Imperialism	20
HIST 315	Europe 1914 to 1945	
PHIL 372	20th Century Philosophy	
PHIL 362	Existentialism	
PHIL 449	Major Figures in the Traditions	
PLSC 331	German Politics and Society	
PLSC 432	Welfare States	

Please Note: 1. Students who waive elementary language courses may meet the 55-credit requirement by substituting approved courses in other disciplines that relate to German

studies or by taking courses in another language. 2. Special topics courses will be offered in sociology, theology and religious studies with a German emphasis, and German literature and culture. 3. In courses used in the major designated other than German (GERM), students must write at least one major paper or three smaller papers in German based upon German language sources. 4. Students are strongly encouraged to participate in a foreign study program in a German speaking country as part of this degree program. Courses from Seattle University's program in Frankfurt/Oder beyond the seven course minor can be considered as optional electives for this degree program as can approved courses completed at Karl Franzen Universitaet in Graz, Austria under the terms of the reciprocal exchange program.

Bachelor of Arts Major in Spanish

In order to earn the bachelor of arts degree with a major in Spanish, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Choose one of the following two courses:	.....	5
HIST 121	Studies in Modern Civilization	
HIST 231	Survey of the United States	

III. Major Requirements

Fifty-five credits in Spanish, including:

SPAN 115	Spanish Language I	5
SPAN 125	Spanish Language II	5
SPAN 135	Spanish Language III	5
SPAN 215	Spanish Language IV	5
SPAN 225	Spanish Language V	5
SPAN 235	Spanish Language VI	5
SPAN 315	Latin-American and Spanish Culture and Society	5

SPAN 325	Introduction to Latin American and Spanish Literature	5
SPAN	Electives (400 level)	15

Please Note: Students who waive elementary language courses may meet the 55-credit requirement by substituting approved courses in other disciplines that relate to their foreign language studies or by taking courses in another language.

Minor in Modern Languages

To earn a minor in modern languages (either French, German, Japanese, or Spanish), students must complete 35 credits in one modern language, including:

115	Language I	5
125	Language II	5
135	Language III	5
215	Language IV	5
225	Language V	5
235	Language VI	5
315	French, German, Japanese, or Spanish Culture and Society	5

See policy for minors on p. 46.

Modern Language Courses

In order to receive full credit for courses in foreign language they must be taken in the numerical sequence (115 through 235) as listed below. A previous course cannot be repeated to improve a grade once a higher course in the sequence is in progress or has been completed.

French Courses

FREN 115	French Language I	5
FREN 125	French Language II	5
FREN 135	French Language III	5
FREN 215	French Language IV	5
FREN 225	French Language V	5
FREN 235	French Language VI	5

An intuitive approach to understanding, speaking, reading, and writing French. These courses constitute a systematic, programmed study of the French language and culture. All of the French language courses are taught in French.

FREN 291	Special Topics	1 to 5
FREN 292	Special Topics	1 to 5
FREN 293	Special Topics	1 to 5
FREN 315	French Culture and Civilization	5

An introduction to French culture and civilization with emphasis on the basic traditions and structures of French society.

FREN 325	Introduction to French Literature	5
A general study of literary French, done in the context of a survey of the major texts, authors, and movements in French literature with emphasis placed on the theories and techniques of literary analysis.		
FREN 391	Special Topics	1 to 5
FREN 392	Special Topics	1 to 5
FREN 393	Special Topics	1 to 5
FREN 415	French Literature and Culture, 19th Century	5
A study of the literary movements in 19th century French literature, based on a historical approach to representative authors and works.		
FREN 425	French Literature and Culture, 17th Century	5
A study of the development of 17th century French classicism as it is reflected in the major works of the period.		
FREN 435	French Literature and Culture, 18th Century	5
A survey of the major works of the French enlightenment as it manifests itself in the scientific, philosophic, political, and ethical thinking of the 18th century.		
FREN 445	French Literature and Culture, 20th Century	5
A survey of 20th century French literature and culture that reflects the social and intellectual trends in modern France.		
FREN 450	Methodology of Teaching French	5
An overview of the various methods and approaches currently being used to teach French.		
FREN 452	Language Development/Modern French	5
An in-depth study of the various levels of modern French, with emphasis on the transformation brought about by current social, political, and cultural changes.		
FREN 463	Contemporary France	5
A study of contemporary French culture involving a survey of texts in French that reflect the issues and changes currently being discussed and debated in modern France.		
FREN 491	Special Topics	1 to 5
FREN 492	Special Topics	1 to 5
FREN 493	Special Topics	1 to 5
German Courses		
GERM 115	German Language I	5
GERM 125	German Language II	5
GERM 135	German Language III	5
GERM 215	German Language IV	5
GERM 225	German Language V	5

GERM 235 German Language VI 5

An intuitive approach to understanding, speaking, reading, and writing in German. These courses constitute a systematic, programmed study of the German language and culture. All German language courses are taught in German.

GERM 291 Special Topics 1 to 5

GERM 292 Special Topics 1 to 5

GERM 293 Special Topics 1 to 5

GERM 315 German Culture and Civilization 5

An introduction to the culture and civilization of German-speaking countries with emphasis placed on the importance of geographical, political, and historical factors in their development.

GERM 391 Special Topics 1 to 5

GERM 392 Special Topics 1 to 5

GERM 393 Special Topics 1 to 5

GERM 491 Special Topics 1 to 5

GERM 492 Special Topics 1 to 5

GERM 493 Special Topics 1 to 5

Japanese Courses

JPAN 115 Japanese Language I 5

JPAN 125 Japanese Language II 5

JPAN 135 Japanese Language III 5

JPAN 215 Japanese Language IV 5

JPAN 225 Japanese Language V 5

JPAN 235 Japanese Language VI 5

An intuitive approach to understanding, speaking, reading, and writing in Japanese. These courses include practice in reading and writing, kanji, hiragana, and katakana.

JPAN 291 Special Topics 1 to 5

JPAN 292 Special Topics 1 to 5

JPAN 293 Special Topics 1 to 5

JPAN 315 Japanese Culture and Civilization 5

An introduction to Japanese culture and civilization with emphasis on the basic traditions and structures of Japanese society.

Spanish Courses

SPAN 115 Spanish Language I 5

SPAN 125 Spanish Language II 5

- SPAN 135** **Spanish Language III** 5
- SPAN 215** **Spanish Language IV** 5
- SPAN 225** **Spanish Language V** 5
- SPAN 235** **Spanish Language VI** 5
- An intuitive approach to understanding, speaking, reading, and writing Spanish. These courses constitute a systematic, programmed study of the Spanish language and culture. All of the Spanish language courses are taught in Spanish.
- SPAN 315** **Latin American and Spanish Culture and Society** 5
- A study of the origins of Spain and Latin America as well as the fusion of both cultures and societies. With a socio-historical approach, strong emphasis is placed on cross-cultural differences and contemporary customs and lifestyles.
- SPAN 325** **Introduction to Latin American and Spanish Literature** 5
- An introduction to literary and critical analysis, with readings from Latin American and Spanish authors. This course also provides the student with a theoretical, historical, and cultural framework for more advanced study.
- SPAN 391** **Special Topics** 1 to 5
- SPAN 392** **Special Topics** 1 to 5
- SPAN 393** **Special Topics** 1 to 5
- SPAN 410** **Cervantes** 5
- A study of the life and works of Miguel de Cervantes with special attention to *Don Quijote de la Mancha*.
- SPAN 416** **Latin American and Spanish Literature and Culture, 19th Century** 5
- A study of 19th Century literary movements in Latin America and Spain. An historical approach to major works in Spanish.
- SPAN 420** **Literature and Revolution** 5
- The impact of social, political, and cultural revolutions upon the literary works of Latin American writers such as Alejo Carpentier, Arturo Uslar Pietri, Carlos Fuentes, Julio Cortazar, Mariano Azuela, and Omar Cabezas.
- SPAN 426** **Latin American Literature and Culture, 20th Century** 5
- A study of 20th Century Latin American literary movements; from the creative work of the "Novela del campo"—Gallegos, Rivera, Guiraldes—through the innovative expression of the "Vanguardia"—Asturias, Borges, Carpentier, Neruda, Rulfo, Vallejo, and the explosion of "Realismo Magico"—Marquez, Cortazar, Fuentes, Vargas Llosa, to present works.
- SPAN 450** **Methodology of Teaching Spanish** 5
- An overview of the various methods and approaches being used to teach Spanish.
- SPAN 463** **Contemporary Spanish Literature and Culture** 5
- Spanish literature and culture of the 20th century; from the "generacion del 98"—Azorin, Baroja, Unamuno—through the "new Golden Age of Spanish Letters"—Alberti, Aleixandre, Cernuda, Guillen, Lorca—to present works.

SPAN 491	Special Topics	1 to 5
SPAN 492	Special Topics	1 to 5
SPAN 493	Special Topics	1 to 5

Classical Language Courses

Latin Courses

LATN 101	Latin Language I	5
LATN 102	Latin Language II	5
LATN 103	Latin Language III	5

Intensive study of grammar with elementary reading and composition. Latin 103 includes selections from classical authors.

Special Topic and Independent Study Language Courses

FRLG 291	Special Topics	1 to 5
FRLG 292	Special Topics	1 to 5
FRLG 293	Special Topics	1 to 5
FRLG 391	Special Topics	1 to 5
FRLG 392	Special Topics	1 to 5
FRLG 393	Special Topics	1 to 5
FRLG 396	Directed Study	1 to 5
FRLG 480	Interdisciplinary Core Course	3 to 5
Title and content vary.		
FRLG 491	Special Topics	1 to 5
FRLG 492	Special Topics	1 to 5
FRLG 493	Special Topics	1 to 5
FRLG 496	Independent Study	1 to 5
FRLG 497	Directed Reading	1 to 5
FRLG 498	Directed Research	1 to 5

History

Thomas W. Taylor, PhD, Chair

Objectives

Defying classification as either humanity or social science, history functions as both. It focuses on the values, as well as the ideas, personalities, and institutions that existed in the past and shaped the present. As concerned with perceptions of reality as with historic reality itself, it attempts to exploit all forms of information concerning the past—myth, folklore, legend, and works of art, as well as conventional manuscript and published sources. And, while the department attempts to assist all students in acquiring that knowledge of the past which is essential to the educated person in the modern world, it is especially concerned with developing the methods and techniques unique to historical inquiry. By consistently raising questions regarding “how we know” as well as “what we know,” the department aims at the development of fundamental intellectual skills that will be of lifelong utility.

Degree Offered

Bachelor of Arts

Major Offered

History

Minor Offered

History

International Studies

A history concentration is also offered as an option in the international studies major. See International Studies section for details.

Teacher Education

The teacher preparation program is a graduate-level program only. Students interested in teaching should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Bachelor of Arts Major in History

In order to earn the bachelor of arts degree with a major in history, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5

FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill history major requirements.

III. Major Requirements

Sixty credits in history, including:

HIST 120	Origins of Western Civilization	5
Choose one of the following two courses:		5
HIST 121	Studies in Modern Civilization	
HIST 231	Survey of the United States	
HIST 200	Introduction to World History	5
HIST 201	Workshop in World History	5
HIST	Electives (300 - 400-level)	30
HIST	Research Seminar (400-level)	10

Please Note: HIST 200 and 201 are to be completed by the end of the junior year.

Policy for Honors Students

Honors program students who have completed all five of the honors history courses may earn a history major by taking an additional 35 credits in history. These credits must include HIST 200 and HIST 201.

Minor in History

In order to earn a minor in history, students must complete 35 credits in history, including:

HIST 120	Origins of Western Civilization	5
Choose one of the following two courses:		5
HIST 121	Studies in Modern Civilization	
HIST 231	Survey of the United States	

HIST 201	Workshop in World History	5
HIST	Electives (300 - 400-level)	20

Please Note: Honors program students who have successfully completed all five honors history courses may earn a minor in history by completing 15 or more history credits at the 300-400 level.

See policy for minors on p. 46.

History Courses

HIST 120	Origins of Western Civilization	5
Traditional societies of the Western world, their values, institutions and historical development from ancient times to the modern era.		
HIST 121	Studies in Modern Civilization	5
The process of modernization in the West and the world.		
HIST 200	Introduction to World History	5
Foundational course in the major which will examine the main themes and eras in world history while introducing students to the state of the discipline of history.		
HIST 201	Workshop in World History	5
Focuses specifically on problems of data collection, comparative analysis, and interpretation that are part of the discipline generally. Will be practiced here within the context of world history and thus the course will serve as a complement to HIST 200.		
HIST 231	Survey of the United States	5
A topical survey focusing on the United States as a model of the modern society and an analysis of the conflicts generated by competing traditional and modern value systems in American society		
HIST 301	The Roman Republic	5
This course will examine Rome from its beginnings to the death of Caesar and the collapse of the Republic.		
HIST 302	The Roman Empire	5
The history of the Roman empire from its establishment by Augustus until its final collapse in A.D. 476.		
HIST 303	Foundations of European Civilization	5
The emergence of the Carolingian Empire and Anglo-Saxon England. Western European relations with the Byzantine and Arab-Mohammedan states.		
HIST 304	Greece to the End of the Peloponnesian War	5
Political and cultural history of Greece to the death of Socrates. First in a two quarter series on ancient Greece.		
HIST 305	Alexander and the Hellenistic World	5
Fourth century Greece, the failure of the polis, rise of Macedon, Alexander's Persian campaign and the successor kingdoms to the death of Cleopatra. Also a brief exploration of Judea under the Greek kings.		
HIST 306	Europe of the High Middle Ages	5
An analysis of the cultural, political, and social institutions of medieval Europe.		

- HIST 307 Europe in the Renaissance Era 5**
A study and interpretation of the many facets of change which brought the Middle Ages to an end and began the distinctive modern developments in the West, 1350-1550.
- HIST 309 Europe in the Reformation Era 5**
Study of the political responses by the new monarchies and the religious responses of the Christian churches to the new socio-economic conditions and cultural transformations of Western modernity, 1500-1660.
- HIST 310 Europe in the Age of Expansion 5**
The period covered will move from the Renaissance to the French and Haitian revolutions of the 1790s and the course will examine how the expanded world of the Atlantic impacted the older cultures and civilization of Europe.
- HIST 311 Europe of the 18th Century 5**
Cultural and political ferment of Western civilization in the century of the Enlightenment and the French Revolution.
- HIST 313 Europe in the Age of Industrialization and Imperialism 5**
Study of the impact of European industrialization and nation-building at home and abroad. (formerly titled Europe of the 19th Century)
- HIST 315 Europe 1914-1945 5**
Examination of the causes of WWI, the impact on European society, the Russian revolution, rise of Fascism. WWII and the Holocaust. (formerly titled Europe of the 20th Century)
- HIST 328 US Women's History 5**
The course will examine the role of women in family, society, and culture. The particular emphasis may change from time to time or from instructor to instructor, but the focus will remain the social history of women. Applies to women's studies minor.
- HIST 331 Peoples of Early America 5**
An exploration of early American societies from prehistoric times to the verge of the American Revolution. (formerly titled Colonial America)
- HIST 333 The Age of the American Revolution 5**
Seven Years War to the 1820s. (formerly titled The Beginnings of the United States)
- HIST 335 Expansion and the Crisis of the Union 5**
The U.S. in the age of Jackson: antebellum reform movements; territorial expansion; slavery and abolition; the Civil War and Reconstruction. Social, political, and economic issues provide major foci, though diplomatic and military topics are also considered.
- HIST 337 The United States from the Gilded Age to the Jazz Age 5**
The course will cover the late nineteenth and early twentieth centuries and create a continuum of chronological coverage. (formerly titled The United States in the Progressive Era)
- HIST 339 Recent United States 5**
The culture of the 1920s, the Great Depression, the Second World War, contemporary American society.
- HIST 340 American Indian History 5**
A survey of American Indian history from prehistoric times to the present.

- HIST 419. Great Historical Figures 5**
An analysis of a major historical figure in the context of his or her times. Considers the impact of an individual upon events as well as that of events upon the individual. Research seminar.
- HIST 420 Hitler and the Holocaust 5**
Seminar will examine the rise of Hitler, the Nazi Revolution, World War II, and the Holocaust. Students will work on the research paper using primary documents.
- HIST 434 Early American History 5**
Seminar in colonial and early national periods with research paper required. (formerly titled American Revolution and Confederation)
- HIST 435 Jackson, Civil War, and Reconstruction 5**
Research seminar on social, political, and economic aspects of the U.S. during the antebellum eras, the Civil War, and reconstruction. (formerly titled American Civil War and Reconstruction)
- HIST 480 History of Modern Science 5**
This course examines the significant development in the history of physics and biology and then explores the impact of these developments on modern Western thought and politics. It will further scrutinize the ethical and moral dilemmas faced by modern scientists through examination of issues such as the building of the atom bomb. Satisfies the interdisciplinary core requirement.
- HIST 481 Community and Conflict in Europe since 1945 5**
The first part of this course examines international relations in Europe since the end of World War II, particularly the Cold War and the European Community. The second half investigates how political and social movements have shaped European identity. Of special interest are questions of immigration and racism, the student movements of the '60s and the terrorism of the '70s and '80s. Satisfies the interdisciplinary core requirement.
- HIST 491 Special Topics 1 to 5**
- HIST 492 Special Topics 1 to 5**
- HIST 493 Special Topics 1 to 5**
- HIST 495 Internship**
Offers students the opportunity for experience with public history in off-campus agencies. Internships are appropriate for senior level students.
- HIST 496 Independent Study 1 to 5**
- HIST 497 Directed Reading 1 to 5**
- HIST 498 Directed Research 1 to 5**
Department permission required.

Honors Program

David W. Madsen, PhD, Director

Objectives

The Honors Program is a two-year program designed to develop students who can think, read, write, and speak integratively across various university disciplines. The courses are historically arranged, beginning with the Ancient Near East and proceeding through the civilizations of the Hindus, Hebrews, Greeks, Romans, and Medieval Europeans to modern and contemporary times. The various disciplines—literature, thought, history, fine arts, and science—are correlated to provide the student with the greatest possible depth in each period under examination. The program is conducted according to the dialogue method in seminars. In addition, each quarter the student must write at least one paper in each course and be prepared to defend this written work in a tutorial session of five or six students and the instructor. Examinations are normally oral and are given at the end of each quarter.

Applications/Scholarships

Applicants are accepted into the Honors Program on the basis of their academic record and on providing evidence that they are willing to make the extra effort necessary to meet the intellectual challenges provided through the Honors Program. In addition to the Seattle University application, the candidates must apply directly to the Honors Program. Honors scholarships are granted on the condition that students participate in the Honors Program for a minimum of eight credit hours per quarter and maintain at least a 3.0 grade point average.

Program Requirements

After acceptance into the program those students who complete each of the course sequences numbered HONR 101 through HONR 251 have satisfied the university core curriculum requirements except for those in mathematics, interdisciplinary course, and senior synthesis. A minimum of 70 credits is required for completion of the Honors Program. Students who limit themselves to the minimum credits must be attentive as to which Honors Program courses fulfill the university core requirements. Completion of the Honors Program will be noted on the student's exit transcript. All HONR courses are closed to non-matriculated students.

Degree Major

Students enrolled in the Honors Program identify their major as "Honors" even if they are beginning foundational work in their degree major, such as premed or business. Upon completion of the program or in their junior year, students will declare their degree major and transfer to the academic department of their choice. Students who decide to major in philosophy, English or history and have completed the Honors Program sequence in these disciplines will have already accumulated five or six quarters of foundational credits toward their major. Such students are ready to move into upper division course work in the philosophy, English or history majors.

Honors Program Courses

Students registering for these courses must have been admitted to the Honors Program or have written permission from the program director.

HONR 101 Humanities Seminar - Thought 5

HONR 102 Humanities Seminar - Thought 4

HONR 103 Humanities Seminar - Thought 5

Critical reading and discussion of the works that have most deeply influenced the development of the Western world, including the Old Testament, Pre-Socratics, Plato, Aristotle, New Testament, St. Augustine, St. Thomas, Duns Scotus, William of Ockham.

HONR 111 Humanities Seminar - Literature 4

HONR 112 Humanities Seminar - Literature 4

HONR 113 Humanities Seminar - Literature 4

Critical examination of those literary works that have most deeply influenced the development of the Western world, including the Bhagavad Gita, Homer and the Greek playwrights, Virgil, Beowulf, Song of Roland, Dante, and Chaucer.

HONR 121 Humanities Seminar - History 4

HONR 122 Humanities Seminar - History 4

HONR 123 Humanities Seminar - History 4

Historiography and historical survey of the Near East, Hebrew, Greek, Roman, Medieval, and Renaissance eras.

**HONR 131 Humanities Seminar - Modes of Inquiry
and Knowing 3**

Focus is on the theory and practice of how we know. Depending on the instructor, students might study modes of inquiry and their historical evolution in disciplines such as theology, the social, biological, and physical sciences, philosophy, fine arts, literature or law.

HONR 142 Humanities Seminar - Art 2

Synoptic view of art history; period and national styles; principles and implication of design.

HONR 201 Humanities Seminar - Thought 4

HONR 202 Humanities Seminar - Thought 4

HONR 203 Humanities Seminar - Thought 5

Critical reading and discussion, including Descartes, Hobbes, Locke, Spinoza, Leibniz, Rousseau, Hume, Wollstonecraft, Kant, Hegel, J.S. Mill, Nietzsche, Marx, Sartre, Heidegger, Merleau-Ponty, Ricoeur.

HONR 211 Humanities Seminar - Literature 4

HONR 212 Humanities Seminar - Literature 4

HONR 213 Humanities Seminar - Literature 4

Shakespeare, Donne, Moliere, Milton, Dryden, Pope, Goethe, the Romantics, Victorians, Russian novelists, and modern literature through the Existentialists to the post-moderns.

HONR 221	Humanities Seminar - History	4
HONR 222	Humanities Seminar - History	4
The study of historical eras, issues, and documents from the Reformation to modern times.		
HONR 231	Humanities Seminar - Science	3
A historical and philosophical examination of assumptions and experiments in the physical or biological sciences.		
HONR 232	Humanities Seminar - Science	4
A three-hour lecture and three-hour laboratory course in the biological sciences which fulfills the core requirement in science.		
HONR 243	Humanities Seminar - Music	2
Survey of European musical tradition with focus on major composers and generic forms.		
HONR 251	Humanities Seminar - Social Science	4
An introduction to political science or sociology through an examination of influential thinkers in either field.		
HONR 291	Special Topics	1 to 5
HONR 292	Special Topics	1 to 5
HONR 293	Special Topics	1 to 5
HONR 296	Independent Study	1 to 5
Private work by arrangement. Prerequisite: approval of program director.		
HONR 396	Independent Study	1 to 5
Private work by arrangement. Prerequisite: approval of program director.		
HONR 480	Interdisciplinary Core Courses	3 to 5
Title and content change each term.		
HONR 490	Humanities Senior Seminar	3 to 5
Reading and discussion of major synthetic literature in the humanities on selected topics. Prerequisite: approval of instructor.		
HONR 496	Independent Study	1 to 5
Private work by arrangement. Prerequisite: approval of program director.		

Interdisciplinary Studies-Social Science

Bradley Scharf, PhD, Coordinator

Objectives

Contemporary society is marked by many changes and controversies about how major institutions can best respond to emergent problems. Public engagement begins with moral awareness, but the path to effective action runs through systematic analysis of aggregate human behavior. Interdisciplinary social science courses take students beyond common sense to the point where value choices meet studies of general causation. Students become involved in the definition of important issues, as well as in the actual practice of using empirical data to sort out alternative modes of action.

Interdisciplinary Social Science

ISSS 120

Poverty in America

5

The causes and consequences of poverty in America today are explored with the resources of four disciplines: economics, psychology, sociology, and political science. Alternative theories and reforms are evaluated. Includes service learning. Correlates with PHIL 220 in core phase II. Satisfies social science I in core curriculum but does not fulfill interdisciplinary core requirement.

International Studies

Paul B. Milan, Ph.D., Coordinator

Objectives

The International Studies Program is an interdisciplinary major which permits a multifaceted focus on Asia, Europe, or Latin America. The aim of the program is to provide Seattle University students with the opportunity to study their disciplinary concentration while examining the modern social, political, economic, and cultural influences of a foreign country and how these influences affect that discipline. The perspectives acquired through this program will provide students with an awareness and greater understanding of how one reacts not only to one's own cultural experiences, but also to the cultural values of another country. As a result of students' studies and foreign experiences, they will develop those qualities that will allow them to interact in an international setting.

Degree Offered

Bachelor of Arts

Majors Offered

International Studies/East Asian Studies

International Studies/Economics

International Studies/Foreign Language

International Studies/History

International Studies/Politics

Minor Offered

International Studies

Study Abroad

The International Studies Program offers university-approved study abroad opportunities through exchange, consortia, and independent programs. Each program will demonstrate high academic standards within an educational philosophy that insists upon theoretical and practical interaction within each cultural setting. The international studies major requires a learning program in a country other than the United States. An acceptable study abroad experience encompasses a minimum of 25 quarter credits or 15 semester credits. See university-sponsored programs listed under the foreign language department. Additional overseas courses are occasionally offered by various schools of the university.

Bachelor of Arts

Major in International Studies/East Asian Studies

In order to earn the bachelor of arts degree with a major in international studies/East Asian studies, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/department grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics or political science)	.....	5
Social Science II (ECON 271 required)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
HIST 121 Studies in Modern Civilization	5

Please Note: 1. All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. International students educated to age 16 in a language other than English may request a waiver of the foreign language requirement, substituting additional approved electives in international areas. 2. Students educated to the age of 16 in schools outside the United States may use HIST 231 as a substitute for HIST 121.

III. Major Requirements

Sixty-five credits in international studies, including:

Foreign Language above 135 (Japanese, Chinese, or Korean#)	15
HIST (related to East Asia)	10
(Choose from HIST 381, 383, 385, 387, 389, or alternate approved by international studies director)	
PLSC 231 Diversity and Change	5
PLSC 260 Intro to Global Politics	5
PLSC Upper Division Electives (International or Comparative)	10
Approved Elective	5

Choose three of the following East Asia electives or approved alternate courses: (300-400 level)

ENGL 393 Japan and the West	
ENGL 430 Japanese Drama	
JPAN 315 Japanese Culture and Civilization	
TRST 267 Spiritual Traditions, East and West*	

TRST 371 Christian-Buddhist Dialogue*
Language courses above 235

#Chinese language requirement can be fulfilled through study abroad; Korean through study at Taejon University as part of reciprocal exchange.

IV. Major Department Prerequisite

ECON 272 Microeconomics 5

Please Note: *1. If TRST 267 or 371 are used to satisfy core requirements they may not be taken as major electives. 2. Approval for major electives must be obtained from the adviser appointed by the international studies director. 3. See departmental listings for course descriptions. 4. Major requires participation in an approved study abroad program for two quarters or one semester.

Bachelor of Arts

Major in International Studies/Economics

In order to earn the bachelor of arts degree with a major in international studies-economics, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/department grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics or political science)	.....	5
Social Science II (ECON 271 required)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	.....	15
HIST 121	Studies in Modern Civilization	5

Please Note: 1. All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. International students educated to age 16 in a language other than English may request a waiver of the

foreign language requirement, substituting additional approved electives in international areas. 2. Students educated to the age of 16 in schools outside the United States may use HIST 231 as a substitute for HIST 121.

III. Major Requirements

Sixty-five credits in international studies, including:

ECON 330	International Economic Events	5
ECON 374	Intermediate Microeconomics	5
	Business/Economics International Electives	15
	(Choose from ECON 376, 379, 386, 472, 473, FINC 446†, MGMT 320†, or MKTG 456†)	
	Foreign Language above 135	15
HIST	Elective (non-U.S.)	10
	(Choose from HIST 313, 315, 381, 383, 387, 389, 420, 481)	
PLSC 260	Introduction to Global Politics	5
PLSC	Upper Division Elective (International or Comparative)	5
	Approved Elective*	5

IV. Major Department Prerequisite

ECON 272	Microeconomics	5
MATH 130 or 134	(prerequisite to upper-division business or economics)	5

Please Note: *1. Approved major elective cannot be in the discipline of the chosen concentration. 2. Approval for major electives must be obtained from the adviser for international studies in the department of concentration. 3. See departmental listings for course descriptions. 4. Major requires participation in an approved study abroad program for two quarters or one semester. †5. The prerequisite requirements for FINC 446, MGMT 320, and MKTG 456 are junior standing and all specific prerequisite courses listed in the Bulletin of Information.

**Bachelor of Arts
Major in International Studies/History**

In order to earn the bachelor of arts degree with a major in international studies/history, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/department grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	(not economics or political science)	5
Social Science II	(ECON 271 required)	5
Theology and Religious Studies	Phase II (200-299)	5
Ethics (upper division)	.....	5
Theology and Religious Studies	Phase III (300-399)	5
Interdisciplinary	.....	3 to 5

Senior Synthesis	3
See detailed core curriculum information in this bulletin.	

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
HIST 121 Studies in Modern Civilization	5

Please Note: 1. All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. International students educated to age 16 in a language other than English may request a waiver of the foreign language requirement, substituting additional approved electives in international areas. 2. Students educated to the age of 16 in schools outside the United States may use HIST 231 as a substitute for HIST 121.

III. Major Requirements

Sixty-five credits in international studies, including:

Foreign Language above 135	15
HIST Elective (non-U.S.)	20
(Choose from HIST 313, 315, 381, 383, 387, 389, 420, 481)	
PLSC 231 Diversity and Change	5
PLSC 260 Introduction to Global Politics	5
PLSC Upper Division Elective (International or Comparative)	10
Approved Elective*	5

Choose one of the following six courses:

ECON 330 International Economic Events	
ECON 376 Economic Development	
ECON 379 Comparative Economic Systems	
ECON 386 International Business Enterprises	
ECON 472 International Trade	
ECON 473 International Macroeconomics and Finance	

IV. Major Department Prerequisite

ECON 272 Microeconomics	5
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Please Note: *1. Approved major elective cannot be in the discipline of the chosen concentration. 2. Approval for major electives must be obtained from the adviser for international studies in the department of the student's concentration. 3. See departmental listings for course descriptions. 4. Major requires participation in an approved study abroad program for two quarters or one semester.

Bachelor of Arts Major in International Studies- Foreign Language

In order to earn the bachelor of arts degree with a major in international studies/foreign language, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/department grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	(not economics or political science)	5
Social Science II	(ECON 271 required)	5
Theology and Religious Studies	Phase II (200-299)	5
Ethics (upper division)	.....	5
Theology and Religious Studies	Phase III (300-399)	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language	115, 125, 135, or equivalent	15
HIST 121	Studies in Modern Civilization	5

Please Note: 1. All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. International students educated to age 16 in a language other than English may request a waiver of the foreign language requirement, substituting additional approved electives in international areas. 2. Students educated to the age of 16 in schools outside the United States may use HIST 231 as a substitute for HIST 121.

III. Major Requirements

Sixty-five credits in international studies, including:

Foreign Language	above 135	25
HIST	Elective (non-U.S.)	10
	(Choose from HIST 313, 315, 381, 383, 387, 389, 420, 481)	
PLSC 231	Diversity and Change	5
PLSC 260	Introduction to Global Politics	5

PLSC	Upper Division Elective (International or Comparative)	10
Approved Elective*	.....	5

Choose one of the following six courses:

ECON 330	International Economic Events	
ECON 376	Economic Development	
ECON 379	Comparative Economic Systems	
ECON 386	International Business Enterprise	
ECON 472	International Trade	
ECON 473	International Macroeconomics and Finance	

IV. Major Department Prerequisite

ECON 272	Microeconomics	5
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Please Note: *1. Approved major elective cannot be in the discipline of the chosen concentration. 2. Approval for major electives must be obtained from the adviser for international studies in the department of the student's concentration. 3. See departmental listings for course descriptions. 4. Major requires participation in an approved study abroad program for two quarters or one semester.

Bachelor of Arts

Major in International Studies/Politics

In order to earn the bachelor of arts degree with a major in international studies/politics, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/department grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics or political science)	.....	5
Social Science II (ECON 271 required)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
HIST 121 Studies in Modern Civilization	5

Please Note: 1. All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because

these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. International students educated to age 16 in a language other than English may request a waiver of the foreign language requirement, substituting additional approved electives in international areas. 2. Students educated to the age of 16 in schools outside the United States may use HIST 231 as a substitute for HIST 121.

III. Major Department Prerequisite

Sixty-five credits in international studies, including:

Foreign Language above 135	15
HIST Elective (non-U.S.)	10
(Choose from HIST 313, 315, 381, 383, 387, 389, 420, 481)	
PLSC 231 Diversity and Change.....	5
PLSC 260 Introduction to Global Politics	5
PLSC Upper Division Electives (International or Comparative)	20
Approved Elective*	5
Choose one of the following six courses:	5
ECON 330 International Economic Events	
ECON 376 Economic Development	
ECON 379 Comparative Economic Systems	
ECON 386 International Business Enterprises	
ECON 472 International Trade	
ECON 473 International Macroeconomics and Finance	

IV. Other Program Requirements

ECON 272 Microeconomics	5
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Please Note: *1. Approved major elective cannot be in the discipline of the chosen concentration. 2. Approval for major electives must be obtained from the adviser for international studies in the department of the student's concentration. 3. See departmental listings for course descriptions. 4. Major requires participation in an approved study abroad program for two quarters or one semester.

Minor in International Studies

In order to earn a minor in international studies, students must earn 30 credits in courses with an international focus, including:

ECON Elective	5
(Choose from ECON 330, 376, 379, 386, 472, 473)	
HIST Elective (non-U.S.)	10
(Choose from HIST 313, 315, 381, 383, 387, 389, 420, 481)	
PLSC Electives (dealing with international and foreign systems, 300-400 level)	10
Approved International Elective	5

Please Note: ECON 271 and 272 are prerequisites to upper division economics courses. See policy for minors on p. 46.

Liberal Studies Program

Betsey Barker Klein, MA, Director

Objectives

The study of the humanities, social sciences, and sciences has long been recognized as the finest preparation for the challenges presented in a world requiring critical reflection, creativity, open-mindedness, and the courage of personal conviction. The Liberal Studies Program is designed for students with initiative and curiosity who want to use their skills and knowledge to make a contribution to society through the wide array of opportunities open to persons who are thoughtful, articulate, and liberally educated. Professions in the fields of government, law, education, business, communications, and a wide range of cultural endeavors consistently require persons with both breadth of vision and breadth of knowledge.

The focus of each student's program is determined by the person's ultimate aspirations. With the guidance of the program director, the student examines the options available in the various disciplines that can be combined into a rich and coherent degree program. The program's interdisciplinary character contributes to the development of both perspective and judgment essential to success in all human endeavors.

The Liberal Studies program is recommended for students who plan to teach at the elementary level. Specific courses are recommended by the School of Education and students planning to become teachers should inform the School of Education as soon as possible.

Degree Offered

Bachelor of Arts

Major Offered

Liberal Studies

Bachelor of Arts Major in Liberal Studies

In order to earn the bachelor of arts degree with a major in liberal studies, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110, or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5

Ethics (upper division) 5
 Theology and Religious Studies Phase III (300-399) 5
 Interdisciplinary 3 to 5
 Senior Synthesis satisfied by LBST 490

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent 15

Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Liberal Studies major requirements.

Choose one of the following two courses: 5
 HIST 121 Studies in Modern Civilization
 HIST 231 Survey of the United States

III. Major Requirements

Sixty credits in liberal studies, including:

Humanities (300 - 400-level) 20
 English, fine arts, foreign language, history, philosophy, and religious studies,
 including five credits in composition/writing
 Social Sciences (300 - 400-level) 15
 Anthropology, communications, criminal justice, economics, political science,
 psychology, sociology, and a limited number of addiction studies courses
 Natural Science Electives 10
 Math, Statistics, or Computer Science Elective 5
 CMJR 225, 230, 355, 361, 385 or equivalent 5

Choose one of the following two courses:
 LBST 490 Senior Synthesis / Project or approved course 5

Please Note: 1. 40 credits must be taken at 300 - 400-level; 25 of these must be taken at Seattle University. 2. Courses used to satisfy major or college requirements may not simultaneously fulfill core requirements.

Liberal Studies Course

LBST 490 Senior Synthesis/Project 5

In the senior year students either take an approved seminar course offered by one of the other majors in the College of Arts and Sciences, or work on a research project that builds on previous studies. Students' faculty advisers must grant final approval of projects, based on written outlines. The thematic content of projects are determined by students' already approved academic program.

Medieval Studies Minor

David W. Madsen, PhD, Adviser

Objectives

The program of courses comprising the medieval studies minor will enable humanities students to gain an interdisciplinary insight into the medieval mind and heart. Though open to any undergraduate, this minor is designed to complement major studies in philosophy, history, English, and foreign language, and humanities studies in the Honors Program. All courses will have three objectives: (1) to enter into the ethos of this period through a synthesis of tests, methods, and viewpoints from a variety of disciplines, (2) to develop an adequate scholarly apparatus, and (3) to prepare and qualify students for graduate studies in this area.

Minor in Medieval Studies

In order to earn a minor in medieval studies, students must complete 30 credits of course work in medieval studies. The first of the following two lists designates courses approved for students enrolled in the Honors Program. The second designates courses approved for students not enrolled in the Honors Program.

Approved courses for students enrolled in the Honors Program:

Honors

HONR 103	Humanities Sem: Thought (Medieval Philosophy)	5
HONR 113	Humanities Sem: Literature (Dante and Chaucer)	4
HONR 122	Humanities Sem: History (Early Medieval)	4
HONR 123	Humanities Sem: History (High Medieval)	4

English (Literature)

ENGL 326	Dante's <i>Divine Comedy</i>	5
ENGL 328	Chaucer	5
ENGL 491-93*	Special Topics in Medieval Literature	1 to 5

Fine Arts

ART 391-93*	Special Topics in Medieval Art	1 to 5
DRMA 391-93*	Special Topics in Medieval Drama	1 to 5

History

HIST 491-93*	Special Topics in Medieval History	1 to 5
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Language (Latin)

LATN 102	Latin Language II (Prereq: Latin I)	5
LATN 103	Latin Language III	5
FRLG 291-93*	Special Topics in Latin Language	1 to 5
FRLG 391-93*	Special Topics in Latin Language	1 to 5

Medieval Studies

MVST 491-93*	Special Topics: Medieval Studies	1 to 5
MVST 496*	Independent Study: Medieval Studies	1 to 5

Philosophy

PHIL 491-93*	Special Topics: Medieval Philosophy	1 to 5
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Religious Studies

TRST 420	Medieval and Reformation Theology	5
TRST 491-93*	Special Topics: Medieval Theology	5

Approved courses for students not enrolled in the Honors Program

See departmental listings for course descriptions.

English (Literature)

ENGL 326	Dante's <i>Divine Comedy</i>	5
ENGL 328	Chaucer	5
ENGL 391-93*	Special Topics in Medieval Literature	1 to 5
ENGL 491-93*	Special Topics in Medieval Literature	1 to 5

Fine Arts

ART 391-93	*Special Topics: Medieval Art	1 to 5
DRMA 391-93*	Special Topics: Medieval Drama	1 to 5

History

HIST 303	Foundations Eur. Civ.: Early Medieval History	5
HIST 306	Europe of the High Middle Ages	5
HIST 491-93*	Special Topics in Medieval History	1 to 5

Language (Latin)

LATN 102	Latin Language II (Prereq: Latin I)	5
LATN 103	Latin Language III	5
FRLG 291-93*	Special Topics in Latin Language	1 to 5
FRLG 391-93*	Special Topics in Latin Language	1 to 5

Medieval Studies

MVST 491-93*	Special Topics: Medieval Studies	1 to 5
MVST 496-98*	Independent Study: Medieval Studies	1 to 5

Philosophy

PHIL 442	Medieval Synthesis (Augustine/Aquinas)	5
PHIL 491-93*	Special Topics: Medieval Philosophy	1 to 5

Religious Studies

TRST 420	Medieval and Reformation Theology	5
TRST 491-93*	Special Topics: Medieval Theology	5

*Special topics courses will be announced at least one quarter before being offered. Consult quarterly schedule of classes for listings approved for minor. Independent study courses may be arranged with individual faculty members in conjunction with the minor coordinator.

Please Note: 1. Courses taken for the minor may also be applied to a major in the department offering these courses (e.g., PHIL 442 may be applied to both the medieval studies minor and a major in philosophy).

2. Reading competence in the Latin language is strongly advised. LATN 101 may not be applied to the minor. LATN 102, LATN 103, and all more advanced Latin courses may be applied to the minor. No more than 10 credits of Latin language may be applied to the minor. 3. No more than 10 credits from any discipline may be applied to the minor. 4. Up to 15 transfer credits may be applied to the minor when approved by the medieval studies coordinator. 5. Courses having an MVST prefix, that is, special topics courses (MVST 491-MVST 493) and independent study courses (MVST 496-MVST 498), may be applied only to the medieval studies minor. 6. Honors Program students may apply no more than 15 credits of Honors medieval course work to the Medieval Studies minor. 7. Some Honors Program courses are similar to upper-division

courses offered by the humanities departments. Honors Program students may not apply these courses to the minor: PHIL 442 (similar to HONR 103), Medieval Literature (similar to HONR 113), HIST 303 (similar to HONR 122), or HIST 306 (similar to HONR 123). 8. Students who decide to pursue a minor in medieval studies should contact the coordinator of the minor. In consultation with the coordinator, students will design a program that best fits their interests and complements their majors. The coordinator posts the list of all approved classes each quarter, and assures that all requirements are fulfilled and that the minor is noted on the transcript. 9. See policy for minors on p. 46.

Courses Specific to the Medieval Studies Minor

MVST 491	Special Topics	1 to 5
MVST 492	Special Topics	1 to 5
MVST 493	Special Topics	1 to 5
MVST 496	Independent Study	1 to 5
MVST 497	Directed Reading	1 to 5
MVST 498	Directed Research	1 to 5

Permission of minor adviser required.

Military Science

Lieutenant Colonel Kerry S. Abington, Chair

Objectives

To prepare academically and physically qualified college women and men for the rigor and challenge of serving as officers in the United States Army—active, national guard, or reserve. To that end, the program stresses service to country and community through the development of leadership traits and values necessary for success as an Army commissioned officer.

The Program

The program has been designed to complement the historical mission of Seattle University in teaching and learning, education for values, preparation for service, and growth of persons. Through the program's elective courses, students are exposed to a rigorous curriculum where they learn vital management and leadership skills not available in other college courses. It is multifaceted with distinctive sub-elements to meet individual needs and requirements. For example, ROTC is traditionally a four-year program, but individuals with prior service, members of reserve or National Guard units, participants of JROTC in high school, and summer basic camp attendees may complete the program in only two years. Normally, all students participate in one class day per week (two to three hours), one workshop (leadership lab) per quarter, and one overnight field exercise per quarter. Physical fitness of all cadets is closely monitored.

The program allows for scholarship assistance for selected students, a monthly stipend for all scholarship and third and fourth year students, and attendance at confidence-building courses during the summer: Air Assault School, Airborne School, and lieutenant summer internships. For specifics about the program, please contact the professor of military science for additional information. High school seniors interested in applying for a four-year scholarship must submit applications by November 15 of their senior year to www.rotc.monroe.army.mil. College freshmen and sophomores may be eligible to apply for three-year and two-year scholarships through Military Science Department, Connolly Center.

Financial Aid

Cadets receive financial aid in three forms: Two-, three-, and four-year scholarships that are awarded by the Department of the Army annually. Scholarships pay up to \$16,000 per academic year for tuition and mandatory fees, and are enhanced by room and board grants provided by Seattle University.

Commissioning Requirements

To be commissioned in the United States Army, students must complete the military science curriculum, including successful completion of the five-week advanced camp at Fort Lewis, WA, the summer prior to the senior year.

The Curriculum

The curriculum is designed to prepare students to become future leaders of the U.S. Army by instilling army values and developing leader attributes, skills, and actions. Behavioral development occurs through course work in the areas of professional military education (PME), military knowledge (MK), and military skills (MLSC).

PME requirements, met through the student's course of academic studies or by evaluation of student skills, develop student's ability to communicate appropriately in writing, understand the human aspects of command, and to become familiar with personal computer terminology, hardware, and application software. Courses meeting these requirements are taught by other departments in the university but they are required for completion of the ROTC program.

Military knowledge courses provide a foundation in such areas as leadership theory, ethics, roles, and responsibilities of the officer and military operations. Military skills are developed during the conduct of leadership workshops and quarterly field training exercises. In addition, the evolution of warfare and military theory with a particular emphasis on the place of military institutions in society will be included.

Leadership development occurs both in and out of the classroom by placing students in a variety of leadership positions. Oral presentations and writing requirements are incorporated in all classes as another means of developing oral and written communication skills.

Basic Course

The term *Basic Course* refers to first and second year courses, MLSC 113, 114, 120, 213, 221, and 222, which are designed for beginning students who want to qualify for entry into the Advanced Course and for those students who may want to try Military Science without any obligations. A number of popular or challenging extracurricular activities are associated with these courses. A student can also qualify for entry into the Advanced Course by completing the summer encampment, Camp Challenge.

Freshman year

MLSC 113, 114, and 120	6
PME: English 110 or equivalent	5

Sophomore year

MLSC 213, 221, 222	6
MLSC 217 Army Conditioning.....	1
PME: Course in psychology, sociology, anthropology, or ethics.....	5

Advanced Course

Junior year

MLSC 321, 322, and 323	9
MLSC 314	4

Senior year

MLSC 421, 422, and 423	9
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Please Note: Special topics or independent study courses may be substituted for some courses listed above with the approval of the professor of military science.

Military Science Basic Courses

- MLSC 113 The Profession of Arms 2**
 Make your first new peer group at college one committed to performing well and enjoying the experience. Learn the fundamentals of leadership and team building – skills to serve you well in any capacity. Also included are rappelling skills and the basics of physical fitness. Includes one leadership lab and one weekend orientation exercise.
- MLSC 114 Skills for Military Leaders 2**
 An introductory course to train students in the use of topographic maps for navigation. Students also learn basic first aid skills and increase confidence through team study. Emphasis is on performance oriented practical exercises. Includes one leadership lab.
- MLSC 120 Effective Communication for Leaders 2**
 Students learn different types of briefings and the essentials of writing well through practical exercise. Includes instruction in the Army Writing Style. Students also develop leadership skills through experiential learning and the development and accomplishment of a class service project. Course includes one training exercise and one leadership lab.
- MLSC 213 Leadership in Organizations 2**
 Students learn the principles of management and leadership through a series of simulations, lectures, projects and readings. Topics encompass organizational behavior, leadership theories, management competencies and communication skills. Includes a service project, a weekend orientation exercise and a leadership lab.
- MLSC 217 Army Conditioning 1**
 A physical fitness program designed to develop students to the Army standard of physical fitness. Required prior to attendance at camps, air assault, and airborne schools.
- MLSC 221 American Military History I: The Revolution to World War I 2**
 A survey course designed to introduce the student to military history through the eyes of the profession. Includes instruction about battle tactics through historic examples. Students participate through readings, lecture, and oral and written presentations. Includes one leadership lab.
- MLSC 222 American Military History II: World War II to the Present 2**
 A continuation of MLSC 221, this course builds on the knowledge acquired in MLSC 221 to give the student an understanding of modern military history. Includes instruction about battle tactics through historic examples. Students participate through readings, lecture, and oral and written presentations. Includes one leadership lab and one training exercise.
- MLSC 291 Special Topics 1 to 5**
- MLSC 292 Special Topics 1 to 5**
- MLSC 293 Special Topics 1 to 5**
- MLSC 296 Directed Study 1 to 5**

Military Science Advanced Courses

- MLSC 314 Advanced Camp 4**
 A five-week camp conducted at Fort Lewis, WA. Only open to (and required of) students who have completed MLSC 301, 312, 313. The student receives pay. Travel, lodging and most meal costs are defrayed by the US Army. The Advanced Camp environment is highly structured and demanding, stressing leadership at small unit levels under varying, challenging conditions. Individual leadership and basic skills performance are evaluated throughout the camp. Although this course is graded on Pass/Fail basis only, the leadership and skills evaluated at the camp weigh heavily in the subsequent selection process that determine the type of commission and job opportunities given to the students upon graduation for ROTC and the university.
- MLSC 321 Land Navigation Competencies 3**
 Advanced principles of land navigation and orienteering using terrain association, map reading and aerial photograph interpretation. Permission of instructor. Includes one leadership lab and one field training exercise.
- MLSC 322 Small Unit Leadership I 3**
 An orientation to the competencies required of the small unit leader. Includes organizational structure, squad tactics, oral and written orders and communications. Permission of instructor. Includes one leadership lab and one field training exercise. (formerly MLSC 312)
- MLSC 323 Small Unit Leadership II 3**
 A continuation of MLSC 322. Includes platoon tactics, how to plan and conduct training and a review of leadership theories. Permission of instructor. Includes one leadership lab and one field training exercise. (formerly MLSC 313)
- MLSC 391 Special Topics 1 to 5**
- MLSC 396 Directed Study 1 to 5**
- MLSC 421 Professionalism I 3**
 A course which assists students in coming to grips with the concept of officership. Covers command and staff procedures, training management, military justice, law of land warfare, and battle analysis. Permission of instructor. Includes one leadership lab and one field training exercise. (formerly MLSC 412)
- MLSC 422 Professionalism II 3**
 The capstone course prior to commissioning, discusses the role of the officer and the institution in a rapidly changing world environment. Covers just war theory, military ethics, force protection, and joint doctrine. Includes one leadership lab and one field training exercise. (formerly MLSC 413)
- MLSC 423 Transition to Lieutenant 3**
 Continues the methodology from MLSC 422. Prepare for a future as a successful Army lieutenant. Includes one leadership lab and one field training exercise. (formerly MLSC 414)
- MLSC 491 Special Topics 1 to 5**
- MLSC 496 Independent Study 1 to 5**

Aerospace Studies (Air Force ROTC)

Col. David A. Reinholz,

Department Chair, Faculty, University of Washington

Objectives

Air Force Reserve Officer Training Corps (AFROTC) is offered to Seattle University students through an agreement with the University of Washington. The Air Force ROTC program is designed to motivate, educate, and commission highly qualified students for active duty as officers in the U.S. Air Force. The curriculum develops the professional knowledge, in both theory and application, that an Air Force officer needs to be an effective manager and leader in the aerospace environment.

General Program Requirements

The freshman- and sophomore-level classes (general military course) are open to students between the ages of 14 and 26 attending any two- or four-year college or university full time. Students of all majors may be eligible to apply for a scholarship. For further information contact the recruiting officer at (206) 543-2360 or write Recruiting Officer, AFROTC Det 910, University of Washington, Box 353830, Seattle, WA 98195-3830.

Commissioning Requirements

Students who successfully complete the AFROTC program and receive an academic degree from Seattle University are offered commissions as second lieutenants in the U.S. Air Force.

General Military Course (GMC)

The basic level courses consist of one classroom hour and two leadership laboratory hour per week during the freshman and sophomore years. Uniforms and textbooks are provided. Students may enter the freshman class at the start of fall, winter, or spring quarters. Sophomore students may enter at the start of fall or winter quarters. A four- or five-week field training course, taken during the summer between the sophomore and junior years, is required for entry into the professional officer course. Students receive pay and travel costs for field training. Except for sophomore cadets on AFROTC scholarships, students incur no active duty service commitment from enrollment in the GMC, and students may drop the courses at any time.

Professional Officer Course (POC)

Cadets selected for enrollment in POC receive tax-free monthly subsistence pay of \$200. They are furnished text books and uniforms. Junior- and senior-level classes consist of three hours of academic classes and two hours of leadership laboratory per week. Students are obligated to serve four years of active duty as Air Force officers after college graduation.

Financial Assistance

The Air Force offers two- and three-year scholarships to qualified college students. Scholarships are available in the areas of engineering, science and technology, nursing, medicine, law, nontechnical, and others. Most AFROTC scholarships pay tuition up to \$15,000 per year, fees, and \$480 a year for textbooks. In addition, scholarship winners receive a \$200 subsistence allowance per month. Students awarded scholarships from the Air Force ROTC Scholarship Board are eligible for a supplemental room grant. Ninety

percent of all junior and senior cadets receive some form of financial assistance from AFROTC. To take advantage of these scholarships, students should apply directly to AFROTC Det 910, University of Washington, Box 353830, Seattle, WA 98195-3830 or call (206) 543-2360, or e-mail to afrotc@u.washington.edu.

Two-Year Program

To provide for those students who did not elect to enroll in the general military courses, a two-year option is available. The two-year program is open to students who have two years remaining until graduation. Students in this program are required to attend a five-week field training course at an Air Force base during the summer preceding program entry. Students are paid during the five-week period. Upon return to campus, students pursue the professional officer course. Uniform, text books, and \$200 monthly subsistence are provided. Partial incentive scholarships are available for students with a minimum 2.35 term GPA and 2.00 cumulative GPA in any major. Students interested in this program must apply to AFROTC.

General Military Courses

Offered at the University of Washington

AS 101 Aerospace Studies 100 1

AS 102 Aerospace Studies 100 1

AS 103 Aerospace Studies 100 1

A survey course introducing topics relating to the Air Force and defense, including Air Force career opportunities, flight dynamics, and a survey of the other branches of the military services. Officership qualities and written communication skills will be emphasized. The Weekly Leadership Lab (LLAB), consisting of Air Force customs and courtesies, health and physical fitness, and drill and ceremonies, is mandatory for cadets enrolled in AS 100 courses. Credit does not apply to the bachelor's degree.

AS 211 Aerospace Studies 200 1

AS 212 Aerospace Studies 200 1

AS 213 Aerospace Studies 200 1

Factors contributing to the development of air power from its beginnings to the present and the evolution of air power concepts and doctrine. History of air power employment in military and nonmilitary operations in support of national objectives. Assessment of communicative skills. Additional one-hour leadership laboratory is mandatory for cadets enrolled in AS 200 courses.

Professional Officer Courses

Offered at the University of Washington

AS 331 Aerospace Studies 300 3

AS 332 Aerospace Studies 300 3

AS 333 Aerospace Studies 300 3

Emphasis on leadership and management fundamentals, professional knowledge, leadership ethics, and communicative skills required of an Air Force junior officer. Case studies are used to examine leadership and management situations. Mandatory leadership laboratory provides advanced leadership experiences in officer-type activities, giving students the opportunity to apply learned principles.

AS 431 Aerospace Studies 400 3

AS 432 Aerospace Studies 400 3

AS 433 Aerospace Studies 400 3

Needs for national security, evolution of American defense strategy and policy, methods for managing conflict, alliances, and regional security to preserve American interests. Arms control and terrorism. The military as a profession; officership; the military justice system; current military issues; refinement of communicative skills. Preparation for active duty. Leadership opportunities are provided via a leadership laboratory mandatory for cadets enrolled in AS 400 courses.

Naval Science (Navy ROTC)

Capt. Marc A. Helgeson, PNS, Department Chair, University of Washington

Objectives

Naval ROTC is offered to Seattle University nursing students through an agreement with the University of Washington. The objective of Naval ROTC is to educate and train young men and women to become officers in the United States Navy or Marine Corps. The single largest source of officers for the Navy and Marine Corps, NROTC provides prospective candidates a liberal educational background.

General Program Requirements

Classes are taught at the University of Washington in Clark Hall. Classes are open to all Seattle University students via UW Extensions. It is not necessary to be a member of the NROTC Unit to take naval science classes.

Commissioning Requirements

Students who successfully complete Naval ROTC and receive a nursing degree from Seattle University will be offered commissions as officers in the United States Navy Nurse Corps.

Scholarships

Four- and two-year scholarships are offered for nursing program students only. Naval ROTC scholarships pay for 100 percent of tuition and books, as well as a \$200 tax-free subsistence payment each month. To take advantage of these scholarships, students should apply directly to NROTC Unit, University of Washington, Box 353840, Seattle, WA 98195-3840, or call (206)543-0170.

The two-year scholarship covers the final two years of college. When accepted, students attend the six-week Naval Science Institute at Newport, Rhode Island, during the summer between their sophomore and junior years to bring them up-to-date on the NROTC curriculum missed during their freshman and sophomore years. Students interested in two-year scholarships should contact the NROTC Unit in January of their sophomore year.

College Program

Each year, men and women are accepted for four- and two-year non-scholarship college programs. For the four-year program, the professor of naval science accepts applications from qualified students throughout the freshman year. Applications for the two-year program are accepted from current sophomores in community colleges or four-year colleges and must be received prior to the beginning of March.

Those students selected for the two-year program attend a six-week course of instruction at the Naval Science Institute during the summer prior to their junior year. Successful completion of the NSI instruction qualifies students for enrollment in the advanced course in the NROTC program. Students in the NROTC college program pay their own college expenses but receive monthly subsistence pay of \$200 during their junior and senior years, including the intervening summer. The Navy furnishes all uniforms and textbooks used in naval science courses.

Naval Science Courses

Offered at the University of Washington

- N SCI 111 The Naval Service 3**
 General introduction to the Navy, its organization, missions, roles, tasks, and operating methods. The relationship to the other services within the Department of Defense is emphasized.
- N SCI 112 Sea Power Practicum I 2**
- N SCI 113 Sea Power Practicum II 2**
 A comprehensive study of the role of sea power in the history of the United States, the current status of the various elements of the nation's sea power as they influence the development and implementation of national security policy, and the economic effects of the elements of sea power (the Navy, the Merchant Marine, port facilities, fisheries, and oceanographic capabilities).
- N SCI 211 Naval Weapon Systems 3**
 Concept of naval weapons systems and the systems approach, the techniques of linear analysis of ballistics and weapons, the dynamics of basic components of weapons control systems. The tools are provided for understanding the basic principles that are involved in all modern naval weapon systems.
- N SCI 212 Naval Ship Systems I 3**
- N SCI 213 Naval Ship Systems II 3**
 Study of the varied ship systems operational in the Navy today, including the principles of characteristic propulsion systems and auxiliary machinery and the elements of ship stability and damage control. An introduction to nuclear propulsion, gas turbines, and auxiliary power systems.
- N SCI 311 Navigation 3**
 The science and practice of maritime coastal navigation, including visual fixing, dead reckoning, and piloting methods. Computation of tides and currents and nautical rules of the road.
- N SCI 312 Navigation II 3**
 Theory and practice of celestial navigation and relative motion. The student learns how to perform the complete day's work of the ship's navigator.
- N SCI 313 Naval Operations 3**
 Introduction to naval operations, the employment of naval forces, naval tactics, formulation of operations plans and orders, employment of detection equipment, and meteorology.
- N SCI 411 Psychology of Leadership 3**
 Introduction of the theory and techniques of naval leadership based on those principles of behavioral science that are pertinent to understanding individual and group behavior of adults. It introduces students to the management process and the relationship of management functions to leadership. Acceptance of a traditional deep sense of moral responsibility on the part of the aspiring leader is stressed.

N SCI 412 Naval Organization and Management I 3

N SCI 413 Naval Organization and Management II 3

Study of organization, systems, and techniques employed in the Navy for management of its human, financial, and material resources. Some of the work relates to the administration of discipline in the Navy under the Uniform Code of Military Justice. Emphasis is placed on the leadership and management role of the junior officer in the fleet.

Marine Corps Option Courses

Offered at the University of Washington

N SCI 321 Evolution of Warfare I 3

N SCI 322 Evolution of Warfare II 3

N SCI 323 Evolution of Warfare III 3

Introduction to the art of war, the evolution of warfare from the earliest recorded battles to the present day.

N SCI 421 Amphibious Warfare I 3

N SCI 422 Amphibious Warfare II 3

Provide basic knowledge of evolution of amphibious warfare from premodern era to present. Strategic and tactical considerations in planning specific operations and amphibious landings.

**N SCI 423 USMC Leadership and
Administration of Justice 3**

Concepts, objectives, characteristic qualities, and practical techniques of leadership as exercised by the Marine Corps officer are studied. Emphasis is placed on the leadership and management role of the junior officer in the fleet Marine forces.

Philosophy

Paul Kidder, PhD, Chair

Objectives

The study of philosophy begins with questions that are as personal as they are universal: What truths can I know? How should I live? Who, or what, am I? Where is my place in the grand scheme of things? To respond fruitfully to such questions requires training in critical habits of mind, learning from the rich traditions and the great minds that have meditated on such questions, and engaging in lively discussion with a community of inquirers. Seattle University undergraduate philosophy courses communicate the value of philosophy and impart knowledge of its most influential figures. Even more, the courses help students bring their own intellectual concerns into dialogue with great minds of the past and present, and hone skills of reasoning and argumentation that make that questioning illuminating, reliable, and useful.

Elective courses support a major in philosophy that emphasizes skills of textual analysis, knowledge of the history of philosophy, and familiarity with contemporary figures and major trends.

Degree Offered

Bachelor of Arts

Major Offered

Philosophy

Minor Offered

Philosophy

Bachelor of Arts

Major in Philosophy

In order to earn the bachelor of arts degree with a major in philosophy, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate.....	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent 15

Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations.

Choose one of the following two courses: 5

HIST 121 Studies in Modern Civilization

HIST 231 Survey of the United States

III. Major Requirements

Fifty-five credits in philosophy, including:

A. Foundations

PHIL 110* Introduction to Philosophy and Critical Thinking 5

PHIL 220* Philosophy of the Human Person 5

PHIL 260 Logic 5

B. Ethics

PHIL 312, 345, 351, 352, 353, 354, 358, or 359 5

C. History and Traditions

PHIL 370 Modern Philosophy 5

PHIL 441 Greek Philosophy: Plato/Aristotle 5

PHIL 442 Medieval Philosophy: Augustine/Aquinas 5

PHIL 449 Major Figures in the Traditions 5

D. Topics and Controversies

PHIL Approved Electives (300-400 level) 15

***Please Note:** Students who matriculate with 90 or more credits in transfer and no philosophy will substitute PHIL 210 for PHIL 110 and PHIL 220. Approved electives will then number 20 credits rather than 15.

Policy for Honors Students

Honors Program students who have successfully completed the HONR courses listed below are exempted from PHIL 220 and ethics, but need an additional 30 credits to complete the major: PHIL 260 or 261, 441, 449 and 15 credits of approved electives. They are credited with the following equivalents:

HONR 101 = PHIL 110

HONR 102/3 = PHIL 442

HONR 201 = PHIL 370

HONR 202 = PHIL 371

HONR 203 = PHIL 372

Minor in Philosophy

In order to earn a minor in philosophy, students must complete 30 credits in philosophy, including:

PHIL 110	Introduction to Philosophy and Critical Thinking	5
PHIL 220	Philosophy of the Human Person	5
PHIL 345	Ethics (or other approved upper-division ethics)	5
PHIL	Electives	15

Please Note: 1. The department can assist students to design a special track in the philosophy minor that complements the student's major field. 2. Students who have completed the Honors Program need an additional 10 elective philosophy credits to complete the minor. 3. See policy for minors on p. 46.

Philosophy Courses

PHIL 110 Introduction to Philosophy and Critical Thinking 5

A combined historical and problematic approach to the nature of philosophical inquiry. Reflection upon fundamental philosophical problems provides the context for mastering basic tools of critical interpretation, logical reasoning, argumentative writing, and responsible cognitive communication. Prerequisite: ENGL 110.

PHIL 210 Philosophy of the Human Person (Bridge) 5

This course is a modification of PHIL 220 for transfer students for whom PHIL 110 has been waived and who have had no previous philosophy course. It introduces students to the nature of philosophical inquiry and includes the issues contained in PHIL 220.

PHIL 220 Philosophy of the Human Person 5

Critical examination of the nature and powers of the human person. Special emphasis on the human knowing process and the problems of human freedom and personal responsibility. Prerequisite: PHIL 110.

PHIL 260 Logic 5

Systematic treatment of traditional logic. The themes of communication and language, division and definition, propositions, syllogisms, and the nature of science will be examined.

PHIL 300 Nature and Cosmos 5

Philosophical appraisal of contemporary cosmological theory. Possible topics include the Big Bang and before; cosmic expansion and the ultimate fate of the universe; space, time, and general relativity; singularities and black holes; the search for a unified field theory; the relation of cosmology to theology. Prerequisite: PHIL 210 or 220.

PHIL 305 Philosophy of Social Sciences 5

Study of the philosophical implications and presuppositions of the methodology and conceptual framework of the social and behavioral sciences; sociology, economics, and/or psychology. Prerequisite: PHIL 210 or 220.

PHIL 306 Philosophy and Psychology 5

A study of the interrelationships between philosophical methods and contents, and the method and contents of psychology, with special focus on the psychoanalytic and phenomenological-existential developments of psychological theory. Prerequisite: PHIL 210 or 220.

- PHIL 308 Philosophy and Literature 5**
An examination of philosophical themes in literature and of the philosophical dimensions of literary interpretation and criticism. Prerequisite: PHIL 210 or 220.
- PHIL 309 Environmental Philosophy 5**
An examination of the two key debates: anthropocentrism (human-central view of the world) vs. non-anthropocentrism, and individualism vs. ecological holism. Several specific environmental problems are treated, including animal rights issues. Prerequisite: PHIL 210 or 220.
- PHIL 312 Social Ethics 5**
Moral problems raised by the relation between individuals and their societies: the common good, the justification of authority, rights and responsibilities of individuals and societies. Prerequisite: PHIL 210 or 220.
- PHIL 315 Buddhist Philosophy 5**
Study of the path of right living as expressed in the mystical and religious philosophy of Buddha. Prerequisite: PHIL 210 or 220.
- PHIL 324 Philosophy of Religion 5**
Examines attempts to rationally prove (or disprove) the existence of God. The divine attributes and the problem of evil are also treated. Thinkers from several traditions are studied.
- PHIL 325 Philosophy of Art 5**
Philosophical reflection on the nature of art and its reality; beauty as a transcendental property of being and its relationship to art and the artist. Prerequisite: PHIL 210 or 220.
- PHIL 326 Philosophy of Law 5**
An investigation into the nature of law, the relation between law and morality, the limits of law, and the nature of justice and rights. Prerequisite: PHIL 210 or 220.
- PHIL 335 Philosophy of History 5**
Consideration of the aim and scope of history, the meaning of the historical event, the nature of historical explanation, and the criterion for historical truth from the points of view of leading representatives of both the speculative and analytical schools. Prerequisite: PHIL 210 or 220.
- PHIL 336 Philosophical Impact of
Scientific Revolutions 5**
Critical examination of one or more major scientific revolutions e.g., the Copernican, Galilean-Newtonian, Darwinian, or Einsteinian revolutions - and of philosophical responses to such emergent scientific views. Prerequisite: PHIL 210 or 220.
- PHIL 337 Social and Political Philosophy 5**
General overview of major thinkers or focus on particular theme(s) in the history of Western social-political theory, from the ancients to the present-day. Prerequisite: PHIL 210 or 220.
- PHIL 345 Ethics 5**
General theory of moral behavior, ethics as a science, the purpose of human life and the means of attaining this goal. Applications of general ethical theory in specific instances. Prerequisite: PHIL 210 or 220.

- PHIL 351 Business Ethics 5**
 Application of general ethical theory to those problems directly related to the business world. Prerequisites: PHIL 210 or 220; ECON 271.
- PHIL 352 Health Care Ethics 5**
 Application of general ethical theory to basic problems encountered in the health care professions; professional secrecy, rights of patients, distribution of healthcare resources. Prerequisite: PHIL 210 or 220.
- PHIL 353 Ethical Issues in Science and Technology 5**
 An application of ethical theories to morally problematic situations confronted in the sciences and in science-based professions. Possible topics include rights and responsibilities; social experimentation; safety and acceptable risk; privacy, confidentiality, and whistle blowing; international and environmental obligations; discrimination and harassment. Prerequisite: PHIL 210 or 220.
- PHIL 354 Ethics and Criminal Justice 5**
 Critical analysis of the ethical issues facing criminal justice practitioners, such as the use of deadly force, conformity to the rules of one's office, the decision to prosecute, participation in plea bargaining, representation of the guilty, and the imposition of punishment. Prerequisite: PHIL 210 or 220.
- PHIL 358 Communication Ethics 5**
 Ethical responsibilities of the communicator, in both interpersonal and media settings. Critical examination of ethical codes in establishing relationships and conducting communication in a democratic society. Topics covered include: lying, withholding information, conflicts of interest, objectivity, service to audiences. Prerequisites: PHIL 210 or 220, and at least one of the following: CMJR 201, 210, or 260.
- PHIL 359 Professional Ethics 5**
 This course will provide the foundations for dealing with the ethical issues professionals in various fields encounter. In addition to the conceptual foundation of professional ethics, attention is given to such issues as truth-telling, informed decision-making, confidentiality, and justice. Prerequisite: PHIL 210 or 220.
- PHIL 360 Analytic Philosophy 5**
 Readings from source material of 20th century analytic philosophers. Investigation of contemporary schools of logical positivism and linguistic analysis from Russel to Wittgenstein. Prerequisite: PHIL 210 or 220.
- PHIL 361 Phenomenology 5**
 Focus on the "pure" phenomenology of Edmund Husserl, the ontological phenomenology of Heidegger, and Merleau-Ponty's phenomenology of the lived-body. Prerequisite: PHIL 210 or 220.
- PHIL 362 Existentialism 5**
 The themes of anxiety, despair, guilt, and freedom in the writings of Kierkegaard, Nietzsche, Sartre, Camus, Jaspers, and others. Prerequisite: PHIL 210 or 220.
- PHIL 363 Hermeneutics 5**
 An examination of the role of interpretation in human understanding, focusing on the work of such thinkers as Gadamer, Heidegger, Schleiermacher, Dilthey, Habermas, and Ricoeur. Prerequisite: PHIL 210 or 220.

- PHIL 364 American Philosophy 5**
Offers, at the discretion of the instructor, either a general overview of the history of the American philosophical tradition from Puritanism to the present or a focused study of a particular movement (e.g., pragmatism) or theme (e.g., community) in that tradition. Prerequisite: PHIL 210 or 220.
- PHIL 366 Process Philosophy 5**
Critical reflection on the philosophies of such thinkers as Bergson, Pierce, Whitehead, and Hartshorne. Prerequisite: PHIL 210 or 220.
- PHIL 367 Gender and Social Reality 5**
A study of the influence of feminist thinking on metaphysics, epistemology, ethics, and the methodology of philosophy. Prerequisite: PHIL 210 or 220.
- PHIL 370 Modern Philosophy 5**
A seminar study of major figures of the 17th and 18th centuries, such as Descartes, Hobbes, Locke, Berkeley, Hume and Kant. Prerequisite: PHIL 210 or 220.
- PHIL 371 19th Century Philosophy 5**
Readings from source material of the 19th century philosophers. Investigation of central topics, problems, and teachings of selected authors from Hegel to Nietzsche. Prerequisite: PHIL 210 or 220.
- PHIL 372 20th Century Philosophy 5**
Readings from source materials of 20th century philosophers in the Anglo-American and/or continental traditions, such as Bergson, Whitehead, Russell, Wittgenstein, James Dewey, Husserl, Heidegger, and Sartre.
- PHIL 391 Special Topics 1 to 5**
- PHIL 392 Special Topics 1 to 5**
- PHIL 393 Special Topics 1 to 5**
- PHIL 403 God and Philosophy 5**
An examination of the existence, nature, and importance of God. Topics to be included: arguments for God's existence, the problem of human suffering, the issue of atheism and nature of faith. Prerequisite: PHIL 210 or 220.
- PHIL 436 The Philosophy and History of Science 5**
Philosophical reflection on the nature of science. Possible topics include theory and observation/experiment; confirmation and refutation; objectivity and truth; realism; science and common sense; science and religion. Prerequisite: PHIL 210 or 220
- PHIL 439 Ethical Theory I: History of Ethics 5**
A survey and comparison of classical texts on ethical theory, (e.g., Aristotle, Aquinas, Mill, and Kant). Prerequisite: PHIL 210 or 220.
- PHIL 441 Greek Philosophy: Plato/Aristotle 5**
A seminar study of the ancient Greek philosophical experience, with particular focus on the works of Plato and Aristotle. Prerequisite: PHIL 210 or 220.
- PHIL 442 Medieval Philosophy: Augustine/Aquinas 5**
A seminar study of the Christian philosophies of St. Augustine and St. Thomas Aquinas. Prerequisite: PHIL 210 or 220.

- PHIL 443 German Idealism 5**
Seminar study of major 18th and 19th century figures as Kant, Fichte, Schelling, and Hegel. Prerequisite: PHIL 210 or 220.
- PHIL 449 Major Figures in the Traditions 5**
Intensive, seminar examination of the work of a major philosopher. Prerequisite: PHIL 210 or 220.
- PHIL 461 Symbolic Logic 5**
Introduction to symbolic or mathematical logic from both an intuitive and formal standpoint. Elementary calculus of classes and relations and introduction to axiomatic set theory and Boolean algebra.
- PHIL 465 Issues in Contemporary Philosophy 5**
A selected examination of some of the current debates within philosophy, e.g., modernity vs. post-modernity, relation between theory and practice, the place of reason in contemporary life. Previously PHIL 341. Prerequisite: PHIL 210 or 220.
- PHIL 480 Interdisciplinary Core Course 3 to 5**
Title and content may change each term. Prerequisite: PHIL 210 or 220.
- PHIL 490 Senior Synthesis 3 to 5**
- PHIL 491 Special Topics 1 to 5**
- PHIL 492 Special Topics 1 to 5**
- PHIL 493 Special Topics 1 to 5**
- PHIL 496 Independent Study 1 to 5**
- PHIL 497 Directed Reading 1 to 5**
- PHIL 498 Directed Research 1 to 5**
- PHIL 499 Senior Thesis 1 to 5**
Original philosophical investigation under the direction of a faculty member appointed by the chairperson of the department. Prerequisite: senior status.

Political Science/Public Administration

James B. Hogan, PhD, Chair

Objectives

Politics is essential to the human condition. It is expressed in patterns of influence among individuals, in the actions of states in world affairs, and in collective efforts to achieve our most noble goals. The political science curriculum links moral issues to empirical analytic questions of political life and explores the realities of political behavior at local, state, national, and international levels. A political science major helps students prepare for careers in government, business, and education, and for graduate study or law school.

Degrees Offered

- Bachelor of Arts
- Bachelor of Public Administration

Majors Offered

- Political Science
- Public Administration

Minors Offered

- Political Science
- Public Program Management

Note: The Institute of Public Service offers two graduate degrees: Master of Public Administration and Master of Not-for-Profit Leadership. See the Graduate Bulletin of Information.

General Program Requirements

Students in political science and public administration must satisfy the university core curriculum requirements as given in this bulletin, and must complete the general program requirements of the College of Arts and Sciences. Macro-economics is required as partial fulfillment of the social science core. Political science majors are strongly encouraged to take additional courses in history, economics, and languages. Advisers may recommend electives in business, sociology, philosophy, and writing. Students who plan to attend law school should consult the prelaw section of this bulletin and see a prelaw adviser.

Teacher Education

The teacher preparation program is a graduate-level program only. Students interested in teaching should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Bachelor of Arts Major in Political Science

In order to earn the bachelor of arts degree with a major in political science, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	(not economics or political science)	5
Social Science II	(ECON 271 required)	5
Theology and Religious Studies	Phase II (200-299)	5
Ethics	(upper division)	5
Theology and Religious Studies	Phase III (300-399)	5
Interdisciplinary	.....	3 to 5

Senior Synthesis filled by designated PLSC course
 See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Political Science major requirements.

Choose one of the following two courses:	5	
HIST 121	Studies in Modern Civilization	
HIST 231	Survey of the United States	

III. Major Requirements

Sixty credits in political science, including:

PLSC 205	Introduction to American Politics	5
PLSC 231	Diversity and Change	5
PLSC 253	Introduction to Political Theory	5
PLSC 260	Introduction to Global Politics	5
Administration and Law	(PLSC 280, 321, 322, 378, 379, 490)	5
American Politics	(PLSC 300, 301, 304, 305, 307, 309, 410, 481, 482, 483)	5
Comparative Politics	(PLSC 331, 332, 338, 339, 432, 484)	5
International Politics	(PLSC 362, 367, 461, 464)	5
Political Theory	(PLSC 352, 355, 356, 459)	5
PLSC	Electives	15

Please Note: 1. Transfer students are required to take at least one course at Seattle University from each of the five fields: Administration and Law, American Politics, Comparative Politics, International Politics, and Political Theory. 2. Several PLSC courses have been identified as satisfying the senior synthesis and the core interdisciplinary requirements. Those courses may

be used to fill major requirements or major electives while also fulfilling university core requirements. The credit for each course completed is included in totals only once.

Minor in Political Science

In order to earn a minor in political science, students must complete 30 credits in political science, including:

Choose three from the following four courses:	15
PLSC 205 Introduction to American Politics	
PLSC 231 Diversity and Change	
PLSC 253 Introduction to Political Theory	
PLSC 260 Introduction to Global Politics	

PLSC Electives	15
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See policy for minors on p. 46.

Public Administration

The bachelor of public administration (BPA) degree provides a broad understanding of how public business is transacted in both government service and private non-profit organizations. The curriculum blends liberal education with preprofessional training in public management and the analysis of public policy. Theory and practice are combined in course work and internship opportunities.

Bachelor of Public Administration Major in Public Administration

In order to earn the bachelor of public administration degree, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origin of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics or political science)	.....	5
Social Science II (ECON 271 required)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis satisfied by PLSC 490		

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent 15

Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no courses in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Public Administration major requirements.

Choose one of the following two courses: 5

HIST 121 Studies in Modern Civilization

HIST 231 Survey of the United States

III. Major Requirements

Fifty-five credits, including:

PLSC 205 Introduction to American Politics 5

PLSC 280 Principles of Public Administration 5

PLSC 305 The Policy Process 5

PLSC 309 Local and State Politics 5

PLSC 378 Planning, Budgeting, and Information Systems 5

PLSC 379 Public Sector Analysis 5

PLSC 382 Research Methods 5

PLSC 490 Leadership in the Public Sector (Senior Synthesis) 5

PLSC 495 Internship 5

Choose one of the following two courses: 5

MGMT 380 Principles of Management

CMJR 383 Organizational Communication

Additional Requirements:

CSSE 103 Introduction to Computers and Applications 5

Minor in Public Program Management

In order to earn a minor in public program management, students must complete 30 credits, including:

PLSC 280 Principles of Public Administration 5

PLSC 378 Planning, Budgeting, and Information Systems 5

PLSC 379 Public Sector Analysis 5

PLSC 382 Research Methods 5

PLSC 490 Leadership in the Public Sector 5

Choose one of the following two courses: 5

MGMT 380 Principles of Management

CMJR 383 Organizational Communication

Prerequisite for minor: 5

CSSE 103 Introduction to Computers and Applications, or equivalent required.

See policy for minors on p. 46.

Political Science Courses

Courses that fulfill field requirements for the political science major are designated by the following code:

- AL Administration and Law
- A American Politics
- C Comparative Politics
- I International Politics
- T Political Theory

PLSC 120 Citizenship 5

Exploration of the theory and practice of democratic citizenship. Through a concentration of classroom learning and experiential service learning, consideration of questions such as the following: What does it mean to be a citizen in a democratic political community? What are the rights and responsibilities of democratic citizens in relation to one another, to the community as a whole, and to other communities? What are the implications of issues of race, class, and gender for the theory and practice of democratic citizenship?

PLSC 205 Introduction to American Politics 5

Constitutional and historical foundations of the federal government. Processes and structures of American politics from conservative, radical, and reformist perspectives. Power, class, and culture as elements affecting citizen participation and as shapers of economic and social policy.

PLSC 231 Diversity and Change 5

Political diversity among contemporary nations. Methods of comparison. Testing theories of change in political economy and political sociology. Examples from capitalist, socialist, and developing nations.

PLSC 253 Introduction to Political Theory 5

Tenets and historical development of modern political ideologies, with a focus on liberalism, conservatism, and democratic socialism. Theoretical and philosophical questions, such as political obligation and justice.

PLSC 260 Introduction to Global Politics 5

Analysis of the international system, including balance of power theory, theories of international cooperation, and of global peace and justice. Major themes include war, nationalism, the global economy, the European Community, interventionism, and the new world order.

PLSC 280 Principles of Public Administration 5

Tour of the multi-disciplinary nature of public administration. Role of public organizations in the American polity at the federal, state, and local levels. Constitutional definition of administration. Exposure to daily workings of public agencies. Role of independent sector organizations. AL

PLSC 300 Environmental Politics 5

Current issues in environmental stewardship facing the human race. The political process as a means of environmental protection at the local, national, and global levels of government. A

PLSC 301 The President and Congress 5

The constitutional basis of divided government in the United States. Examination of the powers of the President and Congress. The President as a builder of national consensus. A

- PLSC 304 Interests, Parties, and Elections 5**
 Popular participation, group influence, party organization, and electoral choice in the American political system. A
- PLSC 305 The Policy Process 5**
 How public policies are enacted and implemented in the U.S. The constitutional, political, ideological, and socio-economic constraints on policy makers. The relationship between economic structure and the substance of public policy. A
- PLSC 307 Politics and the Media 5**
 Role of media in contemporary U.S. politics. Interactions and First Amendment tensions among political and media players in governance, elections, investigative reporting, and political advertising. Ethical issues in media and the political process. A
- PLSC 309 Local and State Politics 5**
 Examination of structures and functions of political institutions at local, state, county, and special district levels, especially legislative, executive, and judicial systems. A
- PLSC 321 Constitutional Law: Structure and Process 5**
 Growth, philosophy, and development of the United States Constitution as reflected in decisions of the Supreme Court with emphasis on the role of the court in contemporary America. AL
- PLSC 322 Constitutional Law: Civil Liberties 5**
 Interpretation of the Bill of Rights by the Supreme Court and the impact on the individual and the states. AL
- PLSC 331 German Politics and Society 5**
 Post-war division and re-unification. Impacts on current political culture, social segments, regional diversity, interest groups, and government structures. Germany as the fulcrum of European integration. C
- PLSC 332 Politics of Japan 5**
 Political power structures as agents of Japan's social and economic transformation. The decline of consensus, and the rise of pressures for political and economic reform. United States links to our second largest trading partner. C
- PLSC 338 African Politics 5**
 Political order, state-building, and economic development in Sub-Saharan Black Africa. Theories of comparative social, economic, and political change. Historical and contemporary causes of famine, civil war, debt, United States and other great power influence, and revolution in South Africa. C
- PLSC 339 The Politics of Gender 5**
 How politics is gendered. Patriarchy, when and how women are included in politics, in what ways its makes a difference. Public policy issues of employment, sexuality, and violence against women. C
- PLSC 352 Modern Political Thought 5**
 Foundations of modern Western political thought, from the Renaissance to the French Revolution. T
- PLSC 355 Contemporary Political Thought 5**
 Issues in modern and postmodern thought. Marxism and critical theory, Freud and modern identity, hermeneutics, poststructuralism, and feminism.T

- PLSC 356 American Political Thought 5**
Survey of American political thought, with special focus on the critical debates which marked turning points in our nation's history. T
- PLSC 362 World Order 5**
How states cooperate to form treaties, institutions, and informal agreements. The United Nations and its specialized agencies, GATT, IMF, the World Bank, UNEP, and the Law of the Sea. Theories of institutionalization, integration, regimes, and interdependence. I
- PLSC 378 Planning, Budgeting, and Information Systems 5**
Characteristics of the control structure in public and non-profit organizations, including financial reporting, output measurement, programming, budget preparation, performance monitoring, and evaluation. AL
- PLSC 379 Public Sector Analysis 5**
Economic theory of public and non-profit organizations, including demand, production, and cost. Introduction to externalities, public goods, collective decision making, taxation, present value, and discounting. AL
- PLSC 382 Research Methods 5**
Social science techniques in defining and executing public policy evaluation. Research design, data acquisition, basic quantitative skills, modes of effective research presentation.
- PLSC 391 Special Topics 1 to 5**
- PLSC 392 Special Topics 1 to 5**
- PLSC 393 Special Topics 1 to 5**
- PLSC 410 Urban Politics and Public Policy 5**
Problems of large American cities with special emphasis on transportation, housing, public safety, and planning. Fiscal problems of American cities; public school politics. A
- PLSC 432 Welfare States 5**
Culture and politics of social planning in Sweden, Germany, Britain, United States, and Canada. Contrasting approaches to income distribution, health care, education, and public assistance. Normative and empirical methods in empirical research. C
- PLSC 459 Topics in Political Philosophy 5**
In-depth analysis of an issue, theorist, or debate of contemporary relevance, including theories of justice, the future of liberalism, and the interpretation of political language. T
- PLSC 461 United States Foreign Policy 5**
The United States role in the international system. The sources of American foreign policy commitments in history, culture, social and economic conditions, and the process of government. Focus on United States relations with the republics of the former Soviet Union, the Third World, and Europe. I
- PLSC 464 European Union 5**
The EU's myriad institutions regulate business activity in fifteen nations, affect prosperity for 300 million people, and help shape the global economy. Member governments are transformed by their own creation, interest groups bridge national boundaries, economic and social rights are redefined, and a unique system of politics emerges. I

- PLSC 480 The Human Prospect 5**
An examination of the political implications of the dangers of nuclear war and ecological suicide. Emphasis on discovering political strategies for preventing a world cataclysm. Core interdisciplinary option.
- PLSC 481 Politics of American Competitiveness 5**
Productivity, distribution, investment, technology, and trade characteristics of the U.S. economy. Comparison with Japan and Europe. Consideration of the role of government; ethical and moral dimensions. (formerly PLSC 302.) Core interdisciplinary option. A, I
- PLSC 482 Black Power in American Society 5**
Social and political aspects of African American history; the "Jim Crow" system; golden years of the civil rights movement; the race-neutral period of the 1990s. (formerly PLSC 303.) Core interdisciplinary option. A
- PLSC 483 Native American Politics 5**
Native American culture and politics. An examination of four centuries of political interactions between Native Americans and European Americans using the techniques of film criticism, literary analysis, ecological science, anthropology, history, economics, and political science. (formerly PLSC 306.) Core interdisciplinary option. A
- PLSC 484 Third World Politics 5**
Changing politics of Asia, Africa, Latin America, and the Middle East. Political order and state expansion; political participation and the growth of democracy; economic growth; politics of income distribution and social equity. (formerly PLSC 367.) Core interdisciplinary option. C, I
- PLSC 490 Leadership in the Public Sector 5**
Causes and consequences of short-term thinking in major public policies, including the environment, the economy, and education. Developing an ethical vision and implementing leadership strategies for the future. Senior synthesis. AL
- PLSC 495 Internship 1 to 15**
On-the-job experience with appropriate governmental or non-profit agency. Students may register for no more than 15 total intern credits (consult with intern coordinator). Mandatory CR/F.
- PLSC 491 Special Topics 1 to 5**
- PLSC 492 Special Topics 1 to 5**
- PLSC 493 Special Topics 1 to 5**
- PLSC 496 Independent Study 1 to 5**
- PLSC 497 Directed Reading 1 to 5**
- PLSC 498 Directed Research 1 to 5**

Prelaw

David W. Arnesen, JD, Adviser

Erik Olsen, PhD, Adviser

Program

The best preparation and a requirement for entrance to many law schools is the completion of a four-year bachelor's degree.

In advising prelaw students, Seattle University follows the recommendations of the Association of American Law Schools. These stress comprehension and expression in words, critical understanding of institutions and values with which the law deals, and creative power in thinking. These capacities may be developed through study in any of a number of departmental majors.

Entering students interested in law must declare a major in the field in which they are most interested and for which they are best suited. Those unable to make such a determination upon entrance will be enrolled in the liberal studies program. The program of study of each prelaw student must be approved by the departmental adviser, and the prelaw adviser should be consulted quarterly. During their junior year, students must acquaint themselves with the entrance requirements of the law school they plan to attend and make arrangements to take the Law School Aptitude Test (LSAT). The application form and the instruction booklet for this test may be obtained from the political science prelaw adviser.

Pre-Graduate Advising Program

Gerald Cobb, SJ, PhD, Adviser

Arthur Fisher, PhD, Adviser

Program

Seattle University offers assistance to prospective graduate students in six areas: 1. selecting graduate programs; 2. preparing for the Graduate Record Examination (GRE); 3. crafting application essays; 4. preparing writing samples; 5. requesting letters of recommendation; and 6. obtaining financial aid. The program sponsors a public presentation every quarter and provides individual assistance. For a schedule of events and individual assistance, please contact an adviser named above.

This program also helps qualified students compete for several national and international graduate scholarships, such as the Rhodes, Marshall, Luce, Rotary, and Mellon (contact person: Jerry Cobb, SJ, PhD). National Science Foundation scholarships (contact person: David Thorsell), Fulbright (contact person: James Stark, PhD., Edwin Weihe PhD, and Paul Milan, PhD), and the Truman Scholarship (David Leigh, SJ, PhD) For information about these scholarships and eligibility requirements, contact the persons named.

Premajor Program

Betsy Barker Klein, MA, Director

Objectives

The College of Arts and Sciences recognizes that many students come to Seattle University wishing to explore academic programs and careers before committing themselves to a major program. The premajor is intended to provide freshmen and sophomores with this opportunity while assuring they are well prepared for whatever direction they choose. Each student is assigned an adviser who not only assists in arranging the student's program, but will aid in the process of making an academic and career decision.

General Program Requirements

The premajor program is for freshmen and sophomores only. Students must enroll in the core courses of phase I and phase II appropriate to their academic level. Students may apply for admittance into a major or professional school at any time in their freshman or sophomore year, but must do so prior to the attainment of junior status.

Psychology

Kevin Krycka, PsyD, Chair

Objectives

The specific and unique role of the Psychology Department is to provide a knowledge of psychology as a human science and as a natural science, both founded on a solid philosophical reflection on values of the human person. The curriculum is designed for students who plan to work as professional psychologists and thus need a sound preparation for graduate study; for students who plan a career in any field dealing primarily with people, such as nursing, teaching, social work, guidance, and human resources; or for those who desire a well-rounded education and thus need a basic knowledge and understanding of human experience and behavior.

Degrees Offered

Bachelor of Arts

Bachelor of Science

Master of Arts in Psychology (See the *Graduate Bulletin of Information*)

Major Offered

Psychology

Psychology with a Specialty in Addiction Studies

Minor Offered

Psychology

General Program Requirements

Entry into the psychology major requires a 2.75 grade point average for incoming freshmen and a 2.75 grade point average for transfer students.

Psychology majors may choose any minor. For social work, the recommended curriculum is a major in psychology and a minor in sociology. Premedical students may take a bachelor of science in psychology. Psychology majors may not register for P/F in the courses listed under departmental requirements. They must obtain a minimum grade of C in the required courses, PSYC 120, 301, 303, 304, 305, 306, and 489 in the bachelor of arts program. In the bachelor of science program, those courses plus 330 or 316, 403 or 405, and 404 or 440 must be graded C or higher. Psychology majors must complete at least 30 credits in the major at Seattle University.

The psychology major may be combined with a specialty in addiction studies (see addiction studies section of this bulletin). Students taking this specialty may count ADST 480 and ADST 402 towards their psychology requirements.

A psychology major cannot count more than 10 credits in independent study toward the 50 credits required for the major.

Teacher Education

The teacher preparation program is a graduate-level program only. Students planning to become elementary teachers or secondary psychology or social studies teachers must complete a bachelor's degree prior to beginning the teacher preparation program. They should contact the Master in Teaching program (206) 296-5759, to ensure that they meet state requirements for an academic program as well as requirements for MIT admission.

Bachelor of Arts Major in Psychology

In order to earn the bachelor of arts degree with a major in psychology, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not psychology)	.....	5
Social Science II (not psychology, and different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis satisfied by PSYC 489		

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Psychology major requirements.

Choose one of the following two courses:

HIST 121	Studies in Modern Civilization	5
HIST 231	Survey of the United States	

III. Major Requirements

Fifty credits in psychology, including:

PSYC 120	Introductory Psychology*	5
PSYC 301	History and Schools of Psychology*	5
PSYC 303	Statistics and Research Methods*	4
PSYC 304	Lab for Statistics and Research Methods*	1
PSYC 305	Statistics and Research Methods: Applied*	4
PSYC 306	Lab for Statistics and Research Methods: Applied*	1

PSYC 489	Senior Seminar*	5
PSYC	Electives	25

Please Note: 1. *Must be graded C (2.0), or better. 2. No more than 10 credits of independent study are permitted.

Bachelor of Arts Major in Psychology with Specialization in Addiction Studies

In order to earn the bachelor of arts degree with a major in psychology with a specialization in addiction studies, students must complete a minimum of 180 quarter credits, with a cumulative grade point average of 2.0 and a major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science		5
FINR 120	or approved fine arts alternate	5
	PHIL 220 Philosophy of the Human Person	5
	Social Science I (not psychology)	5
	Social Science II (not psychology and different discipline from Social Science I)	5
	Theology and Religious Studies Phase II (200-299)	5
	Ethics (upper division)	5
	Theology and Religious Studies Phase III (300-399)	5
	Interdisciplinary (ADST/PSYC 480 allowed)	3 to 5
	Senior Synthesis filled by PSYC 489	

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125 and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Psychology major requirements.

Choose one of the following two courses:	5
HIST 121	Studies in Modern Civilization
HIST 231	Survey of the United States

III. Major Requirements

Fifty credits in psychology, including:

PSYC 120	Introductory Psychology*	5
PSYC 301	History and Schools of Psychology*	5
PSYC 303	Statistics and Research Methods*	4
PSYC 304	Lab for Statistics and Research Methods*	1
PSYC 305	Statistics and Research Methods: Applied*	4
PSYC 306	Lab for Statistics and Research Methods: Applied*	1
ADST 402	Counseling-Alcohol and Drugs*	3
PSYC 480 or ADST 480	Introduction to Alcohol and Drug Addiction	3
PSYC 489	Senior Seminar*	5
PSYC	Electives	19

IV. Other Major Program Requirements

ADST 407	Field Experience	3
ADST 414	Case Management and Advanced Clinical Skills	3
ADST 418	Addiction and the Family	3
ADST 428	Ethics and Law for Addiction Professionals	3
ADST 429	Pharmacology of Alcohol and Drugs	3
PSYC 461	Theory and Experience of Group Dynamics	5

Please Note: 1. *Must be graded C (2.0), or better. 2. No more than 10 credits of independent study are permitted.

Bachelor of Science Major in Psychology

In order to earn the bachelor of science degree with a major in psychology, students must complete a minimum of 180 credits with a cumulative and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science		5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	(not psychology)	5
Social Science II	(not psychology and different discipline from Social Science I)	5
Theology and Religious Studies Phase II	(200-299)	5
Ethics	(upper division)	5
Theology and Religious Studies Phase III	(300-399)	5
Interdisciplinary		3 to 5
Senior Synthesis	filled by PSYC 489	

See detailed core curriculum information in this bulletin

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent 15

Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations.

Choose one of the following two courses: 5

HIST 121	Studies in Modern Civilization
HIST 231	Survey of the United States

III. Major Requirements

Fifty credits in psychology, including:

PSYC 120	Introductory Psychology*	5
PSYC 301	History and Schools of Psychology*	5
PSYC 303	Statistics and Research Methods*	4
PSYC 304	Lab for Statistics and Research Methods*	1
PSYC 305	Statistics and Research Methods: Applied*	4
PSYC 306	Lab for Statistics and Research Methods: Applied*	1
PSYC 489	Senior Seminar*	5
PSYC	Electives	10

Choose one of the following two courses: 5

PSYC 330	Physiological Psychology*
PSYC 316	Health Psychology*

Choose one of the following two courses: 5

PSYC 403	Advanced Statistics*
PSYC 405	Advanced Experimental Design*

Choose one of the following two courses: 5

PSYC 404	Psychology of Learning*
PSYC 440	Cognitive Psychology*

IV. Other Major Department Requirements

Mathematics and physical science electives (includes any mathematics or laboratory science course) 40

Please Note: 1.* Must be graded C (2.0), or better. 2. No more than 10 credits of independent study are permitted.

Minor in Psychology

In order to earn a minor in psychology, students must earn 30 credits of psychology, including:

PSYC 120	Introductory Psychology	5
PSYC	Electives	25

Please Note: Only five credits of independent study are permitted. See information for minors on p. 46.

Psychology Courses

- PSYC 120 Introductory Psychology 5**
 General introduction to the modes of inquiry of scientific psychology, including its nature, scope, and method; organic, environmental, and personal factors that influence human experience and behavior. Correlates with PHIL 220.
- PSYC 201 Statistics I 5**
 Basic descriptive and inferential statistics; central tendency, variability, correlation and regression, probability, z and t tests, one-way analysis of variance. Prerequisite: At least high school algebra. Not for psychology majors.
- PSYC 210 Personality Adjustment 5**
 The normal personality; self-knowledge and self-actualization; personality adjustment problems; various inadequate reactions, escape and defense mechanisms; positive mental health.
- PSYC 291 Special Topics 1 to 5**
- PSYC 292 Special Topics 1 to 5**
- PSYC 293 Special Topics 1 to 5**
- PSYC 301 History and Schools of Psychology 5**
 Survey of the history of psychology, including the classic periods of structuralism, functionalism, behaviorism, psychoanalytic schools, and Gestalt. Majors only. Prerequisite: PSYC 120. (fall, winter)
- PSYC 303 Statistics and Research Methods* 4**
 An introduction to methods of statistical analysis and the use of the natural sciences in the study of human experience and the study of human and animal behavior with an emphasis on the experimental method. Majors only. Corequisite: PSYC 304 (fall, winter)
- PSYC 304 Lab for Statistics and Research Methods* 1**
 Introduction to the application of computers and computer software in descriptive and inferential statistics. Topics will include the creation of data files, the use of statistical software for data and analysis, and the use of graphics software in reporting the results of statistical analysis. Majors only. Corequisite: PSYC 303 (fall, winter)
- PSYC 305 Statistics and Research Methods: Applied* 4**
 A continuation of the first course with a greater emphasis on inferential statistics and the application of the experimental method to areas of psychology such as psychophysics, perception, learning, and memory. Continued study and application of statistical software to the laboratory project. Majors only. Prerequisite: PSYC 303 and 304. Corequisite: PSYC 306 (winter, spring)
- PSYC 306 Lab for Statistics and Research Methods: Applied* 1**
 The application of the correlational method and the experimental method in conducting psychological research. Topics will include within-subjects designs, between-subjects designs, and factorial designs. Students will design research projects, collect and analyze data, and prepare a written report following the format of the publication manual of the American Psychological Association. Majors only. Prerequisite: PSYC 303, PSYC 304. Corequisite: PSYC 305 (winter, spring).

* The four course, PSYC 303, 304, 305, and 306 are components of a single 10-credit course. All must be completed to satisfy any requirement.

- PSYC 315 Abnormal Psychology 5**
 Study of standard topics in abnormal psychology, such as diagnosis, treatment, and factors leading to psychological disturbance, as well as consideration of how one comes to a psychological understanding of disturbed, as well as "ordinary," human existence. One of the purposes of psychological interpretation of disturbed persons which is essential for genuine treatment is to uncover and reveal their basic humanness.
- PSYC 316 Health Psychology 5**
 An examination of the contributions of the methods of psychology and the application of psychological intervention and treatment of illness. The review of current research with respect to the identification of psychological correlates of health and illness. Prerequisite: PSYC 120
- PSYC 322 Growth and Development 5**
 Life span development from infancy through childhood, adolescence, young adulthood, middle age, old age, and death and dying. Cognitive, personality, social, and emotional development. Optional field work placement in settings related to different age periods. Prerequisite: PSYC 120 or equivalent.
- PSYC 330 Physiological Psychology 5**
 Biological basis of behavior, cerebrospinal, autonomic and sensory systems; endocrine glands, relation of the brain to behavior. Prerequisite: PSYC 120.
- PSYC 340 Psychology of Gender 5**
 How gender shapes the lives of men and women, including human development, personality, cognition, achievement, and social behavior. Emphasis will be on the mechanisms through which gender has its effect, including possible effects of biology, learning, modeling, social roles, etc. Prerequisite: PSYC 120.
- PSYC 350 Theories of Personality 5**
 Study of the assumptions, basic principles, and implications for psychotherapy and everyday life of selected personality theorists representing the psychoanalytic, social psychological, social learning, humanistic, and existential approaches to psychology. Prerequisite: third-year standing, and PSYC 120 or equivalent.
- PSYC 375 Psychology of Death and Dying 5**
 Topics include the experience of dying, death anxiety, death denial, pain, near-death experiences, bereavement, disasters, rituals cross-culturally, funerals, the death of the child and the child's perception of death, and the relationship of death to life. Prerequisite: PSYC 120.
- PSYC 391 Special Topics 1 to 5**
- PSYC 392 Special Topics 1 to 5**
- PSYC 393 Special Topics 1 to 5**
- PSYC 403 Advanced Statistics 5**
 Review of probability, correlational methods, and inferential statistics followed by factorial designs including repeated measures designs, analysis of covariance designs, multiple regression, factor analysis, multidimensional scaling, and other multivariate statistics. Prerequisites: PSYC 303, PSYC 304, PSYC 305, and PSYC 306.

- PSYC 404 Psychology of Learning 5**
Principles of classical conditioning; instrumental conditioning, reinforcement, punishment, and avoidance learning; generalization and discrimination, biological aspects of conditioning and learning; review of major learning theories; and application of learning principles in the management of animal and human behavior. Prerequisite: PSYC 120.
- PSYC 405 Advanced Experimental Design 5**
Students will develop independent skills in designing and conducting studies in psychology and in analyzing and interpreting data. Further development of abilities to read, write, and evaluate experimental articles. Training in advanced statistical software for the social sciences. Prerequisites: PSYC 303, PSYC 304, PSYC 305, and PSYC 306.
- PSYC 427 Introduction to Counseling 5**
Basic theory, principles and dynamics of the counselor-client relationship and the counseling process. Majors only. Prerequisite: PSYC 120.
- PSYC 440 Cognitive Psychology 5**
Considers alternative models of how our mind works to receive, store, and process information. The relative strengths of those models in the light of existing data are evaluated. Topics include processes of attention, memory, reasoning and decision making, including the implications of those processes for issues in education, language, social interaction, risk assessment, etc. Prerequisite: PSYC 120.
- PSYC 461 Theory and Experience of Group Dynamics 5**
Basic theory and principles of group dynamics. Experience of group dynamics in a group focusing on the interpersonal, gives a foundation for understanding theory. Majors only.
- PSYC 480 Introduction to Alcohol and Drug Addiction 3**
Psychological, educational, physiological, social, industrial, psychiatric, therapeutic, and rehabilitation aspects of the problem of alcoholism. Satisfies interdisciplinary core requirement. Prerequisite: junior or senior standing in psychology, sociology, premedicine or nursing, or permission. (fall, winter, spring) Also offered as ADST 480. (formerly PSY 490)
- PSYC 481 Ecological Psychology 5**
Learn about the planet we call earth and how we relate to it. Study ways we as individuals and systems shape what we see and how we live in the world. Look at how our attitudes—social and spiritual—and character influence and create the world in which we live. Satisfies a social science major requirement for the ecological studies major or a core interdisciplinary course.
- PSYC 482 Psychology of Forgiveness 5**
Explores various aspects of forgiveness as well as related phenomena such as injury, shame, guilt, blame, and revenge. Questions addressed include: what is the nature of this experience, how does one move towards it, what enables a person to forgive, and what are obstacles to forgiveness. Satisfies core interdisciplinary requirement.
- PSYC 489 Senior Seminar 5**
Reading and discussion of current issues with respect to psychology as a mental health profession, and as a discipline with a particular content and diverse methodologies. Prerequisite for non-majors: permission. Majors only. Satisfies core senior synthesis. (formerly PSY 499)
- PSYC 491 Special Topics in Psychology 1 to 5**
- PSYC 492 Special Topics in Psychology 1 to 5**

PSYC 493	Special Topics in Psychology	1 to 5
PSYC 496	Independent Study	1 to 5
PSYC 497	Directed Reading	1 to 5
PSYC 498	Directed Research	1 to 5

By arrangement. Prerequisite: permission.

Sociology

Charles Lawrence, PhD, Chair

Objectives

Sociologists are endlessly fascinated by the fundamental question: why do people do what they do? Sociologists describe and explain the ecological foundations of society, major institutions and the ways in which people interact, organize their lives together and bestow meaning on the world. In so doing we seek a wider cross-cultural and multi-cultural understanding, striving to make people's lives intelligible across the boundaries of culture, class, race, and gender.

Students are both supported and challenged to develop their abilities to apply the sociological perspective to the study of social life. In our respective disciplines of sociology, social work and anthropology, we seek to build a learning environment which will bring each student to a level of understanding and skill needed to apply that knowledge to furthering one's career and bettering one's life and society. We help prepare students for careers in human services, for graduate study in sociology, education and law. Internships match theory with practice by providing opportunities for on-the-job training.

We strive to help students make sense of their own lives and the world in which they live. We also want to empower them to see the possibilities and limits of social change and of service to others.

Degree Offered

Bachelor of Arts

Majors Offered

Sociology

Applied Sociology/Social Work

Minors Offered

Sociology

Social Work

Teacher Education

The teacher preparation program is a graduate-level program only. Those students planning to become elementary teachers or secondary sociology or social studies teachers should contact the Master Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Bachelor of Arts Major in Sociology

In order to earn any bachelor of arts degree with a major in sociology, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/major grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate.....	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not sociology)		5
Social Science II (not sociology and different discipline from Social Science I)		5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary		3 to 5
Senior Synthesis		3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill sociology major requirements.

Choose one of the following two courses:	5
HIST 121	Studies in Modern Civilization
HIST 231	Survey of the United States

III. Major Requirements

Fifty-five credits in sociology, social work, and anthropology, including:

SOCL 301	Approaches to Sociological Reasoning	5
SOCL 302	Sociological Methods (Prerequisite SOCL 301)	5
SOCL 402	Sociological Theory (Prerequisites SOCL 301, SOCL 302)	5

Area I - Power and Stratification

Choose one from the following three courses:	5
SOCL 316	Social Inequality
SOCL 317	Race and Ethnicity
SOCL 318	Gender and Sexuality

Area II - Self and Society

Choose one from the following three courses:	5
SOCL 222	Social Psychology

SOCL 321	Socialization through the Life-Cycle
ANTH 323	Culture and Personality

Choose electives from SOCL, SOCW and ANTH courses. 30

Please Note: 1. A minimum of 30 upper-division credits in sociology, social work, and anthropology will be required for graduation. 2. Transfer students must complete a minimum of 25 credits in sociology, social work, and/or anthropology at Seattle University. 3. Students are restricted to no more than one program from the sociology department. They may choose a major or a minor or a second degree from either sociology or from applied sociology/social work offerings. For example, students may not major in sociology/social work and minor in sociology.

Bachelor of Arts

Major in Applied Sociology/Social Work

In order to earn the bachelor of arts degree with a major in applied sociology/social work, students must complete a minimum of 180 credits with a cumulative grade point average of 2.0 and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not sociology)	.....	5
Social Science II (not sociology and different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Sociology major requirements. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Social Work major requirements.

- Choose one of the following two courses: 5
- HIST 121 Studies in Modern Civilization
 - HIST 231 Survey of the United States

III. Major Requirements

Fifty-five credits in sociology, social work, and anthropology, including:

- SOCL 301 Approaches to Sociological Reasoning 5
- SOCL 302 Sociological Methods (Prerequisite SOCL 301) 5
- SOCL 402 Sociological Theory (Prerequisites SOCL 301, SOCL 302) 5

Area I - Power and Stratification

- Choose one from the following three courses: 5
- SOCL 316 Class and Inequality
 - SOCL 317 Race and Ethnicity
 - SOCL 318 Gender and Sexuality

Area II - Self and Society

- Choose one from the following three courses: 5
- SOCL 222 Social Psychology
 - SOCL 321 Socialization Across the Life-Cycle
 - ANTH 323 Culture and Personality

 - SOCW 250 Introduction to Social Work 5
 - SOCW 354 The Helping Process 5
 - SOCW 450 Welfare Policy and Community Change 5
 - SOCW 470 Field Experience 5

Choose electives from SOCL, SOCW, and ANTH courses 10

Please Note: 1. Admission to the social work program requires permission from the social work admissions committee. 2. A minimum of 30 upper division credits in sociology, social work, and anthropology will be required for graduation. 3. Transfer students must complete a minimum of 25 credits in sociology, social work, and/or anthropology at Seattle University. 4. Students are restricted to no more than one program from the sociology department. They may choose a major or a minor or a second degree from either sociology or from applied sociology/social work offerings. For example, students may not major in sociology/social work and minor in sociology.

Minor in Sociology

In order to earn a minor in sociology, students must complete 30 credits in sociology, social work, and anthropology including:

- SOCL 301 Approaches to Sociological Reasoning 5

Choose one of the following two courses: 5

- SOCL 302 Sociological Methods
- SOCL 402 Sociological Theory

Area I - Power and Stratification

Choose one from the following three courses: 5

- SOCL 316 Class and Inequality
- SOCL 317 Race and Ethnicity
- SOCL 318 Gender and Sexuality

Area II – Self and Society

Choose one from the following three courses: 5

- SOCL 222 Social Psychology
 SOCL 321 Socialization Across the Life-Cycle
 ANTH 323 Culture and Personality

Choose electives from SOCL, SOCW and ANTH courses: 10

Please Note: Transfer students must take at least 15 upper-division ANTH, SOCL, or SOCW credits at Seattle University for the minor. See policy for minors on p. 46.

Minor in Social Work

In order to earn a minor in social work students must complete 30 credits in social work, sociology, and anthropology, including:

- SOCL 120 Introduction to Sociology 5

Area II – Self and Society

Choose one from the following three courses: 5

- SOCL 222 Social Psychology
 SOCL 321 Socialization Across the Life Cycle
 ANTH 323 Culture and Personality

- SOCW 250 Introduction to Social Work 5

- SOCW 450 Welfare Policy and Community Change 5

Choose two from the following eight courses: 10

- SOCL 219 Deviance and Social Control
 SOCL 316 Class and Inequality
 SOCL 354 Helping Process
 SOCL 368 Social Work with Families
 SOCW 452 Social Work with Children
 SOCW 456 Social Work with Adults and Aged
 CRJS 303 Juvenile Justice
 PLSC 378 Planning, Budgeting and Information

Please Note: Transfer students must take at least 15 upper-division ANTH, SOCL, or SOCW credits at Seattle University for the minor. See policy for minors on p. 46.

Sociology Courses**SOCL 120 Introductory Sociology**

A description of the science of sociology; an analysis of interpersonal relations, of associations and social institutions, and the way these affect one another and are affected by culture. Correlates with PHIL 220.

SOCL 202 Human Ecology and Geography**5**

Examination of basic human responses to nature. 1. Population dynamics, settlement patterns, resource usage, environmental impacts, and the relation of these to ecological processes; 2. Geographical locations and spatial distribution of human activities in terms of natural and cultural regions. The significance of place; special focus on Pacific Northwest.

- SOCL 209 Social Problems /Social Solutions 5**
Who determines when a social issue becomes defined as a "social problem"? What are the links between public issues and personal problems? We will investigate the nature and roots of such problems as poverty, homelessness, violence, family breakdown and changing sex roles in America today. To better understand why problems persist over time, and to consider possible solutions. We will meet with human services professionals in the Seattle community.
- SOCL 210 American Society and Culture 5**
Exploration of the basic institutions and social structure of America. Analysis of main patterns and trends since WWII in population, environment, technology, economy, politics, family, and class, interpreted as a transformation to a post-industrial society. Reflection on origin and nature of American values and character structure (esp. Weber); problems and future prospects.
- SOCL 215 Family and Kinship 5**
Analysis of the nature of family systems. Kinship as the primordial social bond, and the evolution of families in relation to changes in the larger social structure. Contemporary family types, dynamics, development, policy; changes in contemporary family and kinship relations.
- SOCL 219 Deviance and Social Control 5**
Analysis of the nature and dynamics, norms and values, deviance and sanctions, and modes of social control. Theories of causes of deviant behavior, types of deviance, processes of becoming deviant, stigmatization; deviant groups and subcultures, deviance and race, ethnicity, gender, and class differences; deviance, innovation, and social change (formerly SC 319). Also offered as CRJS 200.
- SOCL 222 Social Psychology 5**
Inquiry into fundamental relations between the individual and society. Theoretical perspectives on interaction and communication, formation of personal identity through identification with models, internal organization of self, formation and changes of perceptions, attitudes, beliefs, and behavior; small-group dynamics, collective behavior.
- SOCL 291 Special Topics 1 to 5**
- SOCL 292 Special Topics 1 to 5**
- SOCL 293 Special Topics 1 to 5**
- SOCL 301 Approaches to Sociological Reasoning 5**
An in-depth study of the field of sociology outlining the structure of the discipline, major theoretical and methodological perspectives, and definition of sociological problems. History of the field, relations and boundaries with other disciplines and current issues in sociology will also be covered. Required of all SOCL and SOCW majors.
- SOCL 302 Sociological Methods 5**
This course deals with the why and how of social research. We will cover two main themes: the epistemology of social science and the logic of study design. Students will chart the logic of a social study and establish criteria for evaluating this study. At the conclusion of this course students will be able to understand and interpret information about the contemporary social world. Required of all SOCL and SOCW majors. Prerequisite: SOCL 301.

- SOCL 303 Sociology of Community 5**
 Study of community as both an experience and a place; main focus on the life of the local community. Consideration of classical theories of Toennies and others; ecological, anthropological, and sociological perspectives on community. Historical changes transforming communities in the modern world and America. Contemporary problems of community and innovative responses; community and regional development.
- SOCL 306 Population Dynamics 5**
 Analysis of basic demographic processes and principles; population in relation to environment and resources. Main demographic patterns and trends in history in relation to changes in social and economic organization. Contemporary dynamics, including the demographic transition, over-population, and "birth death".
- SOCL 316 Class and Inequality 5**
 Exploration of the nature and development of social inequality and societal stratification. Alternative theories of Marx, Weber, functionalist and others on the dynamics and evolution of stratification systems, especially the emergence of the modern class system, in relation to changes in social structure. Special focus on classes and the elite in America, and contemporary changes. (formerly titled *Inequality and Stratification*)
- SOCL 317 Race and Ethnicity 5**
 Investigation of the social construction of race and ethnicity in comparative perspective, including the political and socio-historical factors affecting individual and group identities. Special attention paid to the economic and social-psychological dimensions of racism and domination. (formerly titled *Racial and Ethnic Relation*)
- SOCL 318 Gender Roles and Sexuality 5**
 Maleness/femaleness vs. masculinity/femininity; reflection of gender role changes in modern and traditional societies, perceptions and explanations of role changes in educational, economic, political, religious, marital, and familial life in American society. (formerly SC 421)
- SOCL 321 Socialization Across the Life-Cycle 5**
 Study of the formation of personal identity throughout the human life-cycle. 1. socialization: emergence of the self through identification with models, agents and modes of socialization, resocialization; 2. Life-stages: moral and cognitive development, sociology of childhood, youth, adulthood, and old age. Changes in socialization patterns and life-stages in contemporary America.
- SOCL 330 Sociology/Anthropology of Religion 5**
 Exploration of the nature and evolution of religion from a cross-cultural perspective. Theories of Durkheim, Marx, Weber, and others on the nature and dynamics of religious beliefs, symbols, behaviors, organizations, and movements; interrelations of religion, society, culture, and self. Evolution of religious systems in relation to changes in social organization; contemporary religion and society.
- SOCL 333 Sociology/Anthropology of Law 5**
 Exploration of the nature and dynamics of law from a cross-cultural perspective. Theories of custom and law, sources of legal forms and principles; legal institutions, classes, and the state; deviance, law, and social control; changes in legal systems in relation to changes in politics, economics, religion, and society.

SOCL 336	Sociology/Anthropology of Health and Medicine	5
Exploration of the meanings of health, disease, and modes of healing from a cross-cultural perspective. Changes in disease and mortality in relation to changes in social structure. Development of modern scientific medicine, professionalization, and the hospital system; critiques and alternative therapeutics; contemporary dilemmas and future prospects.		
SOCL 391	Special Topics	1 to 5
SOCL 392	Special Topics	1 to 5
SOCL 393	Special Topics	1 to 5
SOCL 402	Sociological Theory	5
An overview of both classical and contemporary theory with special emphasis on conceptualization of theoretical problems, comparison of theoretical approaches and limitations of given theoretical perspectives. Central sociological themes: the transition from traditional to modern society, the relation of ideas to social structure and the focus of identity in post-modern society will be discussed. Required of all SOCL and SOCW majors. Prerequisites: SOCL 301, 302. (formerly SC 340)		
SOCL 424	Sociology of Mental Illness	5
The nature, dynamics, and treatment of madness and insanity from a socio-cultural perspective. Theoretical perspectives on the social causes of mental illness; class, gender, and cultural differences; therapeutic approaches in cross-cultural and historical perspective. Changes in types and treatments of mental illness in relation to changes in society; contemporary definitions and treatment.		
SOCL 480	Interdisciplinary Core Course	3 to 5
Title and content vary.		
SOCL 491	Special Topics	1 to 5
SOCL 492	Special Topics	1 to 5
SOCL 493	Special Topics	1 to 5
SOCL 495	Internship	5 to 10
Practical work experience in a selected organization or supervised setting. Students are required to meet weekly on campus with other interns in a colloquium guided by a faculty member.		
SOCL 496	Independent Study	1 to 5
SOCL 497	Directed Study	1 to 5
SOCL 498	Directed Research	1 to 5

Social Work Courses

SOCW 250	Introduction to Social Work	5
Historical development of social welfare practices and institutions. Theoretical bases underlying the structure and function of social welfare systems and services. Philosophy and methods used by professional social workers in meeting human needs.		
SOCW 354	The Helping Process	5
Survey of the philosophy and methods of social work practice with individuals, families, small groups and communities with a focus on interviewing skills and generalist intervention methods.		
SOCW 368	Social Work with Families	5
Behavioral dynamics in family systems, the reciprocal nature of relationships, and conceptual framework for individual and family therapy through study of treatment modalities.		
SOCW 391	Special Topics	1 to 5
SOCW 392	Special Topics	1 to 5
SOCW 393	Special Topics	1 to 5
SOCW 450	Welfare Policy and Community Change	5
Survey of historical and current social welfare policies and services in America with a focus on the remediation of critical social problems by intervention at the macro level.		
SOCW 452	Social Work with Children and Youth	5
A practice-orientated course focusing on methods of working with children and youth in social and interpersonal conflicts at home, school and the community.		
SOCW 456	Social Work with Adults and Aged	5
Examines the history and current status of adults and aged. Current concepts about the aging process and theoretical frameworks which attempt to explain or resolve the social problems of the adult and aged are presented.		
SOCW 470	Field Experience	5 to 10
Required practical experience for social work majors. Work in a selected organization or supervised setting combined with campus meetings guided by a faculty member. Does not fill core senior synthesis.		
SOCW 491	Special Topics	1 to 5
SOCW 492	Special Topics	1 to 5
SOCW 493	Special Topics	1 to 5
SOCW 496	Independent Study	1 to 5
SOCW 497	Directed Study	1 to 5
SOCW 498	Directed Research	1 to 5

Anthropology Courses

ANTH 230	Cultural Anthropology	5
Study of the nature and the dynamics of cultural processes, the evolution of human beings and cultures. Analysis of the ecological, social, and symbolic lives of humans in a holistic way. Case studies and selected institutions and peoples. Evolution of major socio-cultural systems; impacts of Westernization on native peoples today. (formerly SC 230)		
ANTH 323	Culture and Personality	5
Exploration of cross cultural differences in the organization of personality systems. Alternative theories of culture and character, formation of cognitive and moral structures, and changes in selves in relation to changes in larger social and historical contexts. Evolution of Western notions of personhood, the modern self, and the development of American character structure. (formerly SC 323)		
ANTH 391	Special Topics	1 to 5
ANTH 392	Special Topics	1 to 5
ANTH 393	Special Topics	1 to 5
ANTH 396	Directed Study	1 to 5
ANTH 438	Anthropology of Pacific Northwest Peoples	5
Study of the cultures of native peoples of the north Pacific coast and inter-mountain plateau. Overview of eras, and natural and cultural regions. Analysis of selected peoples in terms of ecology and economics, kinship, politics, status, mythology and ritual. Review of intertribal relations, native-white relations, and native-government relations. Contemporary changes, politics, and future prospects. (formerly SC 438)		
ANTH 491	Special Topics	1 to 5
ANTH 492	Special Topics	1 to 5
ANTH 493	Special Topics	1 to 5
ANTH 496	Independent Study	1 to 5
ANTH 497	Directed Reading	1 to 5
ANTH 498	Directed Research	1 to 5

Also see:

SOCL 330 Sociology/Anthropology of Religion

SOCL 333 Sociology/Anthropology of Law

SOCL 336 Sociology/Anthropology of Health and Medicine

Theology and Religious Studies

Jeanette Rodriguez-Holguin, PhD, Chair

Objectives

Theology and religious studies contribute to the formation of students' personal growth by helping them develop attitudes, skills, and knowledge to deal perceptively and critically with the religious dimension of human life, especially with the beliefs, practices and values of the Catholic Christian tradition. The department supplies two levels of courses for the university core curriculum. Phase II religious experience courses (200 numbers on the bulletin course listings) help students recognize and appreciate the presence and function of the sacred in human life and history; Phase III theological reflection courses (300 numbers in the course listings) enable students to learn how to understand religious traditions.

Students must take a Phase II course before they can register for a Phase III course. Transfer students with 90 or more credits and no equivalent 200- or 300- level theology/religious studies course are granted a waiver for Phase III (300-level) and are required to take a Phase II (200-level) course at Seattle University.

The department also offers a program of courses, some from courses designed for the core curriculum, some special for majors and minors (400 numbers in the listings), leading to a bachelor of arts degree in theology and religious studies.

Degrees Offered

Bachelor of Arts

Major Offered

Theology and Religious Studies

Minor Offered

Theology and Religious Studies

Bachelor of Arts

Major in Theology and Religious Studies

In order to earn the bachelor of arts degree with a major in theology and religious studies, students must complete a minimum 180 credits with a cumulative grade point average of 2.0 and major/program grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Ethics (upper division)	.....	5

Interdisciplinary	3 to 5
Senior Synthesis	3

See detailed core curriculum information in this bulletin.

II. College of Arts and Sciences Requirements

Foreign Language 115, 125, 135, or equivalent	15
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Please Note: All students with a major in the College of Arts and Sciences must demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. Because these courses are a college requirement, no course in the sequence may be taken on a pass/fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the Foreign Language Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences foreign language requirement may not be used to fulfill Religious Studies major requirements.

Choose one of the following two courses:	5
HIST 121 Studies in Modern Civilization	
HIST 231 Survey of the United States	

III. Major Requirements

Sixty credits in theology and religious studies, including:

Introductory and Intermediate Courses

Choose one of the following World Religion courses:	5
TRST 267 Spiritual Traditions: East and West	
TRST 268 Topics in Symbol, Ritual, and Myth	
TRST 371 Christian-Buddhist Dialogue	
Choose one of the following Hebrew Bible courses:	5
TRST 200 The Hebrew Bible	
TRST 201 Torah: The Birth of a People	
TRST 208 Women and the Hebrew Bible	
Choose one of the following New Testament courses:	5
TRST 211 The Gospel of Jesus Christ	
TRST 217 The Message of Paul	
TRST 221 John: A Different Gospel	
TRST 224 Women and the New Testament	
Choose two of the following systematics courses:	10
TRST 300 Themes of Christian Faith	
TRST 301 Women and Theology	
TRST 303 Theology of the Person	
TRST 310 Christology	
TRST 312 Rethinking God	
TRST 317 Church as Community	
TRST 321 Sacraments: Doors to the Sacred	
TRST 334 Jesus and Liberation	

Choose one of the following ethics courses: 5

- TRST 330 God, Money, and Politics
- TRST 338 Human Sexuality: The Challenge of Love
- TRST 341 Contemporary Ethical Issues
- TRST 345 Biomedical Ethics: The Giving and Taking of Life
- TRST 347 Religion and Ecology

Advanced Courses

Choose one of the following two courses: 5

- TRST 407 Interpreting the Hebrew Bible
- TRST 414 Interpreting the Synoptics

- TRST 401 Theology of Religions 5
- TRST 419 Early Christian Theology 5
- TRST 420 Medieval and Reformation Theology 5
- TRST 428 Modern and Contemporary Theology 5
- TRST *Elective (approved by adviser) 5

Please Note: *Students who transfer with 90 or more credits and no applicable religious studies may waive this requirement, reducing their major credit total to 55.

Minor in Theology and Religious Studies

In order to earn a minor in theology and religious studies, students must complete 30 credits in theology and religious studies, including:

Choose three courses in one of the following specializations: 15

- Biblical Studies
- Systematic Theology
- Historical Theology
- Theological Ethics
- World Religions

Choose one course (or a total of five credits) from each of three areas outside the chosen specialization: 15

- Biblical Studies
- Systematic/Historical Theology
- Theological Ethics
- World Religions
- Spirituality

Please Note: 1. Students considering a minor should contact the department chair as soon as possible to discuss options. 2. Brochures with sample courses for each area of specialization are available in the departmental office. 3. All minors will work closely with a faculty adviser in their chosen area of specialization. 4. It is strongly recommended that students take one or more 400-level courses. 5. If students design their programs carefully, courses taken to fulfill the Theology and Religious Studies core requirement will count toward the minor. See policy for minors on p. 46.

- TRST 221 John: A Different Gospel 5**
Investigation of John's distinctive understanding of Jesus as the divinely incarnate Christ; John's cultural and religious background and its shaping of the picture of Jesus as divine light and life; John's theology of indwelling and stress on the commandment of love; the relevance of the Johannine Jesus for contemporary believers. B
- TRST 224 Women and the New Testament 5**
Investigation of stories, images, and texts within the New Testament that touch directly on women's lives. Use of feminist hermeneutics, in conversation with modern historical and literary methods, to explore the meaning and value of these stories and images in terms of their ancient cultural context, traditional interpretations, and modern application. Special focus on the portrayal of Jesus in relationship to women within the gospel tradition. B
- TRST 230 God in Human Experience 5**
Exploration of religious experience and the understandings of the Sacred, the natural world, person, and society that flow from such experience. Major themes include: revelation and faith; experiences of God and their expression in symbols, stories, and concepts; implications of one's view of God for understanding persons and community; challenges to the contemporary believer. S
- TRST 235 Catholic Traditions 5**
Description of the historical roots and the characteristic set of beliefs, values, structures, and practices that give rise to, shape, and vitalize the continuing faith-life of Roman Catholics. Scriptural sources and life-effects of the tradition. S
- TRST 243 Faith and Morality 5**
Examination of connections between Christian faith expressions and decisions/actions in everyday life. Topics include: development of persons as moral agents in society; the place of Christian scriptures and tradition in the formation of people as agents in history; methods of moral decision-making and tools for evaluating personal decisions and public policies; application to central issues of the day. TE
- TRST 252 Living Prayer 5**
Introduction to prayer as humans' most direct experience of God; investigation of our experiences of prayer, from prayers our parents taught us to liturgical prayer in various traditions; identification of personal prayer styles; Eastern and Western methods of contemplation as integration of self and world and as union with God. SP
- TRST 255 Psychology and Religion 5**
Exploration of experiences of the Sacred as religious and psychological phenomena. Reflection on theories of faith development and development of persons through the lifecycle. Study of the Gospel story of Jesus as paradigm of authentic human life. SP
- TRST 258 African-American Religious Experience 5**
Effect of experiences and understandings of God (esp. providence, justice, power, knowledge, goodness) on African-American history, struggle, and concepts of reality. Contributions of African-Americans to biblical interpretation and theological understanding. Impact of African roots, slavery, segregation, and the civil rights movement upon the African-American collective psyche. S

TRST 267 Spiritual Traditions: East and West 5

Study of the revelation-authority religions of the West (Judaism-Christianity-Islam) compared with the wisdom-experience traditions of Asia (Hindu-Buddhist-Tao-Shinto). Focus on historical data and Scriptural texts of each tradition to understand different views of person, community, sacred world, and meditation as experienced relationship to the divine. WR

TRST 268 Topics in Symbol, Ritual, and Myth 5

Comparative study of topics in symbol, ritual, and myth in several religious traditions. The course will consider: 1) definitions and interrelations of these three categories in modern theories of religion; 2) their relation to other categories in religious studies, such as scripture, belief, doctrine, ethics, and spirituality; 3) sub-grouping within Eastern and indigenous religions, including an examination of how they function as constituent elements in systems of meaning with their respective traditions, and how they compare and contrast with one another. WR

TRST 275 Jewish Faith and Life 5

Examination of monotheism, covenant, morality and ethics as law, halacha (an intricate system of law governing the daily life of the individual), the lifecycle from birth to death, Sabbath and holidays, kosher dietary laws, messiah and messianism, theological Zionism, political Zionism, and the modern Jewish state of Israel. Analysis of antisemitism as a major factor in the development of Judaism and the Jewish psyche. WR

TRST 277 God and Evil 5

Study of the question of evil in relation to belief in God (theodicy). Exploration of the seeming conflict between innocent suffering and faith in the goodness and omnipotence of God. Investigation of classic resources for the discussion of this issue (e.g., the Book of Job) along with contemporary theological reflection on modern instances of suffering from colonialism and slavery to the Holocaust, facism, and Third World struggles. S

TRST 291 Special Topics 2 to 5**TRST 292 Special Topics 2 to 5****TRST 293 Special Topics 2 to 5****Core Phase III: Responsibility and Service—
Theological Reflection**

Phase III courses employ more advanced theoretical frameworks and critical skills to explore the implications of theological understanding for responsibility, service, and justice in the world.

Please Note: All 300-level courses have a prerequisite of a Phase II 200-level theology and religious studies course and sophomore standing.

TRST 300 Themes of Christian Faith 5

Origins, continuing relevance, and integrating connections of some of the principal beliefs that shape and sustain Christian living over time: faith, revelation, creation, incarnation, redemption, life in the Spirit. Relation of beliefs to continuing life-evaluations and decisions. S

TRST 301 Women and Theology 5

Exploration of central topics in feminist theology, e.g., naming the sacred, the self in relation, transformation of the world. Discussion of what is involved in "doing theology" and what women bring to this discipline by attending to their own experience, interpretation, and the power of their heritage. S

- TRST 303 Theology of the Person 5**
Theological reflection on the nature of human persons understood in relation to self, community, natural world, and God. Major themes include origins and destiny; sin and grace; embodiment; creativity, play, and work; gender and sexuality; suffering and oppression; human dignity and responsibility. S
- TRST 310 Christology 5**
Exploration of Jesus Christ's continuing redemptive significance for today's world. Sources and methods for addressing questions about who Jesus is and what he does. Investigation of the Christian community's deepening understanding of and response to the mystery of Jesus' person, presence, and power. S
- TRST 312 Rethinking God 5**
Exploration of some major themes in the doctrine of God (e.g., power, love, transcendence, involvement in the world, trinitarian life, etc.) in light of questions raised by contemporary understandings of basic issues like suffering, gender and cultural diversity, humanity's place in the ecosystem, etc. Reflection on images and understandings of God in the Bible, Christian tradition, contemporary theology. Influence of one's view of God upon one's sense of responsibility for the world. S
- TRST 317 Church as Community 5**
An examination of the Christian community's attempt to represent Jesus' expression of the love of the triune God for all creation. Study of the Church's beliefs, values, structures, and activities in the past and in today's pluralistic world. Role of the Christian community in the lives of its members and in society. S
- TRST 321 Sacraments: Doors to the Sacred 5**
Study of the sacraments in the Christian tradition, including Christ and the church as primary sacraments; biblical roots and historical development of sacraments; contemporary challenges to sacramental practice; relation between sacraments and Christian living. (formerly titled Symbol, Ritual and Sacrament) S
- TRST 330 God, Money, and Politics 5**
A critical examination of the relationship between wealth and power and the Christian tradition; relationship between faith and the social, political, and economic orders; faith and justice; Christian social teachings; Christian responses to issues of poverty, hunger, and injustice. TE
- TRST 334 Jesus and Liberation 5**
Examination of the subject and methods of liberation theologies, such as Latin American, feminist, black, Asian; reflection on the life, mission, death, and resurrection of Jesus Christ in light of oppressive situations; role of church; nonviolence, revolution, and the drive for freedom. S
- TRST 338 Human Sexuality: The Challenge of Love 5**
Study of ethical standards for human sexuality in relation to Scripture, Christian tradition, and human experience; dialogue between the natural/social sciences and theological perspectives on sexuality; role of gender in sexuality; examination of ethical norms on marriage, same-sex relationships, being single, and dysfunctional and abusive relationships; sacramental character of marriage; sexuality and the sacred. TE

- TRST 341 Contemporary Ethical Issues 5**
 Exploration of selected contemporary moral problems in the light of the challenge they present to Christian ethics; emphasis upon components of an adequate Christian ethical framework; dialogical character of Christian ethics between the natural/social sciences and theological/philosophical perspectives; issues such as nonviolence, war and peace, capital punishment, racism, sexism, etc. TE
- TRST 345 Biomedical Ethics: The Giving and Taking of Life 5**
 Reflection on the ethical challenges that modern scientific and medical advances present to the Christian tradition in the areas of human reproduction and death; the proper relationship between science and Christian faith; the personal and relational character of human persons and their ways of moral knowing vs. the technological, scientific ways of determining knowledge. TE
- TRST 347 Religion and Ecology 5**
 Exploration of the role and responsibility of humans in the natural world; place of nature in Christian teachings and practices; examination of biblical themes, such as domination, co-creation, Promised Land, and Exodus; Christianity in the face of the environmental crisis and its dialogue with nature religions; myth and symbols of the sacred in nature. TE
- TRST 371 Christian-Buddhist Dialogue 5**
 Comparative study of Christianity and Buddhism emphasizing the unity and diversity in both traditions. Exploration of major Christian theological concepts of the divine Trinity, the divine and human nature of Jesus Christ, revelation and redemption; as compared to the Buddhist teachings of sunyata and nirvana, enlightenment, Buddha-nature, and Zen philosophy. Special attention will be given to new approaches in inter-religious dialogue, such as comparative hermeneutics of scriptures and classics. WR
- TRST 380 Core Ethics: Christian Perspective 5**
 Core ethics requirement as offered from Christian theological perspectives. Examines the theological contributions which Christian faith brings to bear upon normative ethics by exploring the constitutive elements of an adequate ethical framework within the Christian tradition; theological method, requisite sources of knowledge informing an ethical framework, the prioritization of sources in normative ethics, modes of ethical reasoning. TE
- TRST 391 Special Topics 2 to 5**
- TRST 392 Special Topics 2 to 5**
- TRST 393 Special Topics 2 to 5**
- TRST 396 Directed Study 2 to 5**

Major Courses

- TRST 401 Theology of Religions 5**
 The study of theologizing the world's religious history; in Jewish, Christian, Buddhist, Hindu, Taoist-Confucian, and Japanese traditions. An in-depth exploration of inter-religious dialogue. Topics considered include the persistence of religion, science, and religious experience; revelation and transcendence; invisible harmony, cosmic confidence in reality, and anthropomorphic categories. Christocentrism and Buddhacentrism, Brahmanic transcendence and Muslim mysticism. WR

TRST 407	Interpreting the Hebrew Bible	5
Intensive study of selected texts in the Hebrew Bible focusing on a specific theme; emphasis on inductive study followed by reading a variety of interpretations; attention to the use made of these texts in various strands of Jewish and Christian traditions. B		
TRST 414	Interpreting the Synoptics	5
Discussion of the synoptic problem; use of historical (source, form, reaction criticisms) and literary methods to uncover the unique portraits of Jesus in the Gospels of Matthew, Mark, and Luke; the Gospels as narrative theologies embodying images of self, God, community, and world; critical reflection on interpretative uses of Gospel traditions from diverse perspectives. B		
TRST 419	Early Christian Theology	5
An exploration of the development of Christian theology from the sub-apostolics through the early Middle Ages, emphasizing the Christological and Trinitarian controversies and the writings of Augustine. H		
TRST 420	Medieval and Reformation Theology	5
An exploration of the development of Christian theology from Bonaventure through the Council of Trent emphasizing the contributions of Aquinas, Luther, and Calvin. H		
TRST 428	Modern and Contemporary Theology	5
Exploration of the development of Christian theology from the Enlightenment to the present, emphasizing the relationship between religion and modern culture through the study of major thinkers and streams of theological thought, e.g., Liberal Protestantism, Neo-Orthodoxy, Transcendental Thomism, Liberation Theologies, and Postmodernism. H		
TRST 465	Theology of Ministry	3
Investigation into Jesus' of Nazareth's motives and practice of ministry as well as that of his early disciples; how these have been expanded and adopted in the history of the Christian community. Learning objectives are to enable the student to have Jesus' own attitude of ministry as service and to see the skills and practices that have implemented that attitude in the past as well as the skills that should inform Christian ministry today. SP		
TRST 470	Internship in Ministry	2
Application of the learning and skills developed in TRST 465 in a practical internship in an institution or agency. The student will sharpen ministerial skills with the on-site supervisor and reflect on the theological meaning of his or her experience with the professor of the course. Prerequisite: TRST 465. SP		
TRST 480	Interdisciplinary Core Course	3 to 5
Title and content may change each term		
TRST 491	Special Topics	2 to 5
TRST 492	Special Topics	2 to 5
TRST 493	Special Topics	2 to 5
TRST 496	Independent Study	2 to 5
TRST 497	Directed Reading	2 to 5
TRST 498	Directed Research	2 to 5

Women's Studies Minor

Betsey Barker Klein, MA, Co-director

Jodi O'Brien, Ph.D., Co-director

Objectives

The program of courses which comprises the women's studies minor will enable students to examine women's roles in society from multiple perspectives and disciplines; to understand and evaluate feminist critical scholarship and to apply it across disciplines and in all areas of life; to analyze the connections between gender inequalities and other forms of discrimination (race, class ethnicity, etc.); and to develop abilities and skills to deal positively and effectively with gender issues for individuals and society.

The minor is designed for women and men to complement a major field of study with an increased understanding of the role gender plays in the social construction of reality.

Minor in Women's Studies

In order to earn a minor in women's studies, students must complete 30 credits in women's studies, including:

WMST 401	Women's Studies Seminar	5
	Electives from approved list	25

Not more than 10 credits may be taken in any one discipline. At least 15 credits must be from upper-division courses. At least 15 credits must be taken at Seattle University, five credits of which must be WMST 401.

Please Note: As soon as a student decides to pursue a minor in women's studies, she or he should contact the director. In consultation with the director, students will choose an adviser and begin to design programs that fit their specific interests and best complement their majors. The adviser helps decide on particular courses, assures that all requirements of the minor are fulfilled, that the minor is noted on the transcript, and provides information on further study and/or career opportunities.

Courses selected for the minor may include those which fulfill university core or elective requirements, and those taken to fulfill a major.

See information on minors on p. 46.

Courses Approved for the Women's Studies Minor

Courses Specific to the Minor

WMST 101	Introduction to Women's Studies	5
A survey of women in society and feminist methods and concepts. Major themes include identity, work, community, and citizenship. How race, class, age, nationality, ethnicity, and sexuality create similarities and differences with gender.		
WMST 401	Women's Studies Seminar	5
Exploration of methods of various disciplines to understand gender, providing a truly interdisciplinary perspective on women's issues. Synthesis of preceding work in the minor. Required for women's studies minor. Prerequisite: senior standing, women's studies minors only.		

Courses Based in Other Departments

(See departmental listings for descriptions.)

CMJR 480	Gays, the Media, and Politics (or Sex, Myth, and Media)	5
CRJS 405	Feminist and Multicultural Criminology	5
ENGL 440	Women and the Creative Imagination	5
ENGL 441	International Women's Writing	5
HIST 328	US Women's History	5
NURS 372	Issues in Women's Health: A Wellness Perspective	3 or 5
PHIL 220	Philosophy of the Human Person	5
	(Only sections designated X:WS in the remarks column of the quarterly schedule of classes)	
PHIL 367	Gender and Social Reality	5
PHIL 345	Ethics	5
	(Only sections designated X:WS in the remarks column of the quarterly schedule of classes)	
PLSC 339	The Politics of Gender	5
PSYC 340	Psychology of Gender	5
SOCL 318	Gender and Sexuality	5
SOCL 402	Sociology Theory	5
	(Only sections designated X:WS in the remarks column of the quarterly schedule of classes)	
TRST 208	Women and the Hebrew Bible	5
TRST 224	Metaphor and Gender in the Bible	5
TRST 301	Women and Theology	5

Special topics courses will be added as departments propose new offerings. Recent class titles include: ECON 491 Economics of Gender and the Family; HIST 393E Her Story/His Story; HUMT 400 Women: Image/Reality; SOCL 491 Sexual Politics; TRST 293 Women in the Gospel; WMST 392E Feminist Theories and Methods. Appropriate offerings will be identified each term in the schedule of classes.

Albers School of Business and Economics

David Arnesen, JD, Acting Dean and Genevieve Albers Chair
Mary Jean Rivers, PhD, Acting Associate Dean
Mary Carpenter, MEd, Director of Graduate Programs
Lorie Johnson, MEd, Director of Albers Placement Center
Wendie Phillips, MA, Director of Undergraduate Programs
David White, MBA, Director of Marketing and External Relations

Department Chairs

Accounting: David E. Tinius, PhD
Management: TBA
Economics and Finance: Barbara M. Yates, PhD

Program Directors

Undergraduate Program Chair: Dean Peterson, PhD
Graduate Program Chair: William Weis, PhD
International Business: C. Patrick Fleenor, PhD
Management: Robert Callahan, PhD
Marketing: Rex Toh, PhD
E-Commerce and Information Systems: Bonn-Oh Kim, PhD

Professorships and Endowed Chairs

Robert D. O'Brien Chair in Business: Barbara Parker, PhD
Frank Schrontz Endowed Chair of Ethics: John Dienhart, PhD

Centers

Center for E-Commerce and Information Systems: Bonn-Oh Kim, PhD, Director
The Entrepreneurship Center: Harriet Stephenson, PhD, Director

Objectives

In the spirit of the Jesuit tradition of academic excellence, student development, and the service of faith through the promotion of justice, the Albers School of Business and Economics provides high quality educational programs, research and scholarship, and service.

We prepare students for leadership positions in domestic and international business, government, and in not-for-profit organizations. Our programs develop responsible leaders who think clearly and critically, judge wisely and humanely, communicate effectively, and act with integrity at all times. They, moreover, foster an ethical and service orientation.

We conduct high-quality research in order to enhance the quality of teaching, foster an intellectual atmosphere, improve management practice, contribute to public policy, and serve society's needs.

Finally, we encourage and promote high-quality service to the university and community.

Accreditation

The undergraduate and graduate programs are accredited by AACSB-IAME, International Association for Management Education (formerly AACSB).

Organization

The Albers School has two principal divisions, undergraduate and graduate studies. Undergraduate majors are offered in nine business fields, culminating in a bachelor of arts in business administration. In addition, the school offers a bachelor of arts in economics degree program.

Minors are offered in business administration, economics, and international business. Certificates of post-baccalaureate studies are also available.

Undergraduate Degrees and Programs Offered

Bachelor of Arts in Economics

Bachelor of Arts in Business Administration with majors in:

Accounting

Business Economics

E-Commerce and Information Systems

Finance

Individualized Major in Business Administration

International Business

Management

Marketing

Risk Management

Double Concentration

Major in two program areas

Minors Offered

Business Administration

Economics

International Business

Accelerated Programs

Bachelor of Arts in Business Administration and Master of Business Administration

Bachelor of Arts in Economics with Business Administration minor and

Master of Business Administration

Bachelor of Arts and Master of Arts in Applied Economics

Master's degree programs may, under special circumstance as outlined in the program section of the *Graduate Bulletin of Information*, allow master's candidates to apply not more than six credit hours of graduate coursework taken as part of their undergraduate degree to meet credit hour requirements for the master's degree.

Certificate of Post-Baccalaureate Studies

Accounting
Business Administration
Business Economics
Finance
International Business

Graduate Degrees and Programs Offered

See *Graduate Bulletin of Information* for:

Master of Arts in Applied Economics
Master of Business Administration
Master of International Business
Master of Science in Finance
Master in Professional Accounting
Joint Degrees in Law and Business
Certificate of Post-MAE Studies
Certificate of Post-MBA Studies
Certificate of Post-MSF Studies
Certificate of Post-MIB Studies

See *School of Law Bulletin* for:

Juris Doctor

Curriculum

The program of required study for the bachelor of arts in business administration has four principal components: the university core, business foundation requirements, major requirements, and electives. All students fulfill requirements in English, mathematics, philosophy, lab science, social sciences, and theology and religious studies. The business foundation requirements include courses in accounting, economics, finance, legal environment, international, management, marketing, operations, and statistics. Specialization in one of the nine major fields is required. No course in the major may be taken through independent study or internship. Business courses appear under the prefixes ACCT, BLAW, BUEN, ECIS, ECON, FINC, INBU, MGMT, MKTG and OPER.

General Program Requirements

A minimum of 180 credits is required for a bachelor degree in business or economics, including 80 hours of university core curriculum courses. The pass/fail option may not be applied to courses in the business foundation, university core, or business major. Internship and independent study must be graded CR/F and may not be used to satisfy a required course or major elective.

Students transferring courses from another institution and pursuing a degree in business administration (BABA) normally must earn at least 50 credits (65 hours for accounting majors) of business courses at Seattle University. Forty of these credits (55 of these credits for accounting majors) must be taken at the upper-division (300-400) level. Twenty credits (30 credits for accounting majors) in the student's concentration must be taken at Seattle University. Students pursuing a bachelor's degree in economics (BA ECON) must normally earn 30 credits of upper-division economics at Seattle University.

A maximum of 20 credits taken by an undergraduate non-matriculated student may be applied toward a baccalaureate degree in the Albers School of Business and Economics.

Academic Advising

The Albers School of Business and Economics is committed to providing students accessible academic advising services. The intent of academic advising, whether formal or informal, is to assist students in formulating an academic plan consistent with their individual academic and career goals. Academic advisers aid in assessing education goals; provide information about degree requirements, university policy, and university procedure; serve as a referral to other campus resources; and encourage involvement in campus programs and organizations which will benefit the educational experience.

Students are encouraged to make the most of their own education and are ultimately responsible for fulfilling all the requirements of their specified degree. To help students succeed academically, the Albers School provides two levels of advising services: curriculum advising and major advising.

1. Curriculum Advising: Curriculum advising is provided by a core group of advisers who can assist students with degree requirements, policy questions, and campus resources. Freshmen are assigned advisers who are junior and senior business or economics majors trained to advise new students through their first year. First quarter registrants, freshmen, and students on academic probation are required to meet with an adviser to register for classes. Continuing students are encouraged to seek academic advising regularly through individual appointments, new student orientations, "express advising" hours or e-mail advising.

2. Major Advising: Junior and senior students are encouraged to meet with a faculty member in their major area to discuss selection and sequencing of major requirements and electives. This may happen with a faculty member at the student's initiation or at one of the Albers School sponsored events.

Albers Placement Center

The Albers School Placement Center focuses on preparing undergraduate and graduate students for entering the work force. By providing connections to the business community through such programs as the mentor program, internships, and educational events, undergraduate and graduate students have the opportunity to interact with professionals in the student's intended field.

The Albers Placement Center provides the following programs and services:

- Individual career counseling

- Undergraduate and graduate mentor programs

- Internships

- Career Notes (weekly)

- Professional skills programs (e.g. Etiquette Dinner, Dress for Success, company information nights)

- Career Expo (campus wide career fair sponsored by Career Development Center and other placement services on campus)

- Library resources for the job search

- Company files

- Job Search Clubs

- e-Recruiting – online internship and job listings for Seattle University students and alumni

Certificate of Professional Achievement (COPA)

Designed in collaboration with the business community, COPA focuses on preparing students for the job market by developing skills employers are seeking in new employees. By assessing skills developed through activities in and out of the classroom, students demonstrate competencies in six areas: business communication skills, career exploration, creative problem solving, practical experiences, relationship building, and responsible leadership. All undergraduate business and economics majors are eligible for the program, but must formally apply for admission.

Admission Requirements

Native Students

Native students, that is, students entering Seattle University with no prior college, are accepted according to university undergraduate admission policy.

Transfer Students

Transfer students, including transfers from other schools within Seattle University, must have a 2.75 cumulative grade point average and 2.75 minimum in business and mathematics courses to be admitted into the Albers School of Business and Economics.

Transfer applicants whose records do not meet the grade point average requirement may request special consideration by writing the director of undergraduate programs of the Albers School of Business and Economics specifying reasons for the exception request. A transfer student with 90 or more credits whose academic record is good but who has not completed required lower-division courses may be granted provisional admission for a specific number of terms to complete lower-division requirements.

To be accepted as transfer credit in fulfillment of a program requirement, business, mathematics, economics, and computer science courses must be graded a minimum of C (2.0 on the decimal system).

Academic Progression and Junior Standing in the Albers School

1. No student is permitted to take business courses numbered 300 or above prior to admission to junior status in a business major. Exceptions may be requested by majors in other departments from the director of undergraduate programs of the Albers School of Business and Economics.
2. To be admitted to junior standing in a bachelor of arts in business administration (BABA) major, at least 90 credits and a cumulative grade point average of 2.25 is required. Also, BABA students must have completed MATH 118 and 130 or the equivalent, ECON 260, and at least four of these six other required lower-division courses: ACCT 230, 231, MGMT 280, CSSE 103, and ECON 271 and 272. The grade point average in these courses must be at least 2.25. The remaining two required lower-division courses must be completed by the end of the second quarter of their junior year.
3. Both BABA and bachelor of arts in economics (BA ECON) students must maintain a 2.25 cumulative grade point average and a 2.25 business cumulative grade point average.

4. Students in the Albers School of Business and Economics must earn a grade of C- or better in each course required by the major and supporting courses such as MATH 118, 130, CSSE 103, and ECON 271.
5. Students applying for readmission after an absence of four consecutive quarters or more will be required to meet program and performance requirements in force at the time of re-enrollment.
6. Students changing to business and economics majors from other majors will be required to meet program and academic performance requirements in force at the time the major is changed.

Dismissal

1. BABA and BA ECON majors who have 90 credits and who have not met the stated cumulative grade point average and basic course requirements for junior status are subject to dismissal from the Albers School of Business and Economics.
2. If the cumulative grade point average or the grade point average in business and economic courses (including computer science and mathematics) falls below 2.25 for three or more successive terms (including summer, if registered) the student is subject to dismissal.
3. Anyone who has completed more than 120 credits of degree requirements and has been dismissed, ordinarily will not be considered for readmission.
4. Students are allowed three attempts at a single course (including grades of I, NC, HW, and W). If the course is not successfully completed on the third attempt students are subject to dismissal from the Albers School.

Graduation

To be granted either the BABA degree or the BA ECON degree, students must achieve a 2.25 cumulative grade point average overall, as well as a 2.25 cumulative grade point average in all Seattle University course work required by the Albers School and complete a minimum of 180 credits.

Accounting

David E. Tinius, PhD, Chairperson

Objectives

Professionally trained accountants serve in diverse roles in private business, government, non-profit organizations, and other entities. After meeting the state requirements, many accounting graduates pursue careers as certified public accountants.

Degree Offered

Bachelor of Arts in Business Administration

Major Offered

Accounting

Bachelor of Arts in Business Administration Major in Accounting

In order to earn the bachelor of arts in business administration degree with a major in accounting, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)*	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I (not economics)	.....	5
Social Science II (ECON 271 required)*	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

*Major requirement and must be graded C- or better.
See detailed core curriculum information in this bulletin.

II. Additional ASBE Requirements

Non-business elective (or MATH 118*)	.....	5
CSSE 103	Introduction to Computers and Applications*	5

III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230	Principles of Accounting I	5
ACCT 231	Principles of Accounting II	5
ECON 260	Business Statistics	5
ECON 272	Principles of Economics—Micro	5
ECON 310	Quantitative Methods and Applications	5
MGMT 280	Communication for Business	5

Choose one of the following two courses:

MGMT 320	Global Environment of Business	
ECON 330	Int'l Economic Events and Business Decisions	
FINC 340	Business Finance	5
MKTG 350	Introduction to Marketing	5
OPER 360	Manufacturing and Service Operations	5
BLAW 370	Business and International Law	5
MGMT 380	Principles of Management	5
MGMT 489	Business Policy and Strategy	5

IV. Major Requirements*

Thirty credits, including:

ACCT 301	Accounting Information: Sytems, Tools, and Concepts	5
ACCT 311	Intermediate Financial Accounting I	5
ACCT 312	Intermediate Financial Accounting II	5
ACCT 330	Cost Accounting	5
ACCT 336	Federal Income Tax I	5
ACCT 420	Controllorship: Integration of the Accounting Function	5

V. Additional Requirements

General electives to total 180

With permission of the chair of the accounting program, undergraduate students earning bachelor degrees in accounting at Seattle University may take two specified graduate accounting courses (ACCT 530 Strategic Cost Management and ACCT 537 Advanced Accounting Information Systems) as electives. These electives will satisfy course requirements toward both the undergraduate degree in accounting and the master of professional accounting.

Please Note: 1. MGMT 280 must be taken prior to or simultaneously with ACCT 301. 2. Accounting majors must normally complete 65 credits of business courses at Seattle University; 55 of these credits must be at the upper-division level and only 10 credits may be transferred toward the concentration area and no more than 15 toward their business foundation courses. 3. Internships or independent studies will not satisfy major requirements.

* Major requirements and must earn a C- grade or better.

Business Economics

Barbara M. Yates, PhD, Chairperson

Objectives

A concentration in business economics enables students to deepen their understanding of the national and world economies as well as to develop economic analysis skills for careers in business, banking, investments, law, and government.

Degree Offered

Bachelor of Arts in Business Administration

Major Offered

Business Economics

Bachelor of Arts in Business Administration Major in Business Economics

In order to earn the bachelor of arts in business administration degree with a major in business economics, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)*	5
FINR 120	or approved fine arts alternate.....	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I (not economics)	.....	5
Social Science II (ECON 271 required)*	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary satisfied within major.		
Senior Synthesis satisfied by MGMT 489		

II. Additional ASBE Requirements

Non-business elective (or MATH 118*)	5
CSSE 103 Introduction to Computers and Applications*	5

*Major requirements and must earn a grade of C- or better.
See detailed core curriculum information in this bulletin.

III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230	Principles of Accounting I	5
ACCT 231	Principles of Accounting II	5
ECON 260	Business Statistics	5
ECON 272	Principles of Economics—Micro	5
ECON 310	Quantitative Methods and Applications	5
MGMT 280	Communication for Business	5

Choose one of the following two courses: 5

MGMT 320	Global Environment of Business	
ECON 330	Int'l Economic Events and Business Decisions	
FINC 340	Business Finance	5
MKTG 350	Introduction to Marketing	5
OPER 360	Manufacturing and Service Operations	5
BLAW 370	Business and International Law	5
MGMT 380	Principles of Management	5
MGMT 489	Business Policy and Strategy	5

IV. Major Requirements*

Twenty-five credits, including:

ECON 374	Intermediate Microeconomics	5
ECON Electives	.....	20

(Choose from upper division ECON courses, excluding ECON 370, 377, 470, and 489. FINC 443 may be included.)

V. Additional Requirements

General electives to total 180 15

Please Note: 1. ECON 330 must be taken as part of the business foundation or as an upper-division economics course. 2. Internships or independent studies will not satisfy major requirements.

* Major requirements must earn a C- grade or better.

E-Commerce and Information Systems

Bonn-Oh Kim, PhD, Program Director

Objectives

Information systems (IS) and the Internet are transforming virtually all types of human activities and creating a new global business environment. Understanding of IS and the Internet and their impacts on business is critical for doing business in the coming decades. As the Internet becomes available to the masses, E-Commerce on the Internet is on the verge of becoming one of the most important market activities in the world economy. In E-Commerce and Information Systems (ECIS) students discuss information technologies, business strategies, transformation/creation of business processes, and ethical/legal issues in this new and exciting business environment.

Degree Offered

Bachelor of Arts in Business Administration

Major

E-Commerce and Information Systems

Bachelor of Arts in Business Administration Major in E-Commerce and Information Systems

In order to earn the bachelor of arts in business administration degree with a major in e-commerce and information systems, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)*	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I (not economics)	.....	5
Social Science II (ECON 271 required)*	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

II. Additional ASBE Requirements

Non-business Elective (or MATH 118*)	5
CSSE 103 Introduction to Computers and Application*	5

*Major requirements and must earn a C- grade or better.
See detailed core curriculum information in this bulletin.

III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230 Principles of Accounting I	5
ACCT 231 Principles of Accounting II	5
ECON 260 Business Statistics	5
ECON 272 Principles of Economics—Micro	5
ECON 310 Quantitative Methods and Applications	5
MGMT 280 Communication for Business	5

Choose one of the following two courses:

MGMT 320 Global Environment of Business	
ECON 330 Int'l Economic Events and Business Decisions	
FINC 340 Business Finance	5
MKTG 350 Introduction to Marketing	5
OPER 360 Manufacturing and Service Operations	5
BLAW 370 Business and International Law	5
MGMT 380 Principles of Management	5
MGMT 489 Business Policy and Strategy	5

IV. Major Requirements*

Twenty-five credits, including:

ECIS 315 Introduction to Information Systems and E-Commerce	5
ECIS 462 Internet Marketing	5
ECIS 464 Object-Oriented Modeling in Business	5
ECIS 466 Database Systems in Business	5
ECIS 469 Strategies and Technologies on the Internet	5

In addition, students must complete an approved internship in the E-Commerce and Information Systems field. The internship need not be for credit. Internship or Independent Studies may not substitute for a required course.

V. Additional Requirements

General electives to total 180	15
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* Major requirements and must earn a C- grade or better.

III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230 Principles of Accounting I	5
ACCT 231 Principles of Accounting II	5
ECON 260 Business Statistics	5
ECON 272 Principles of Economics—Micro	5
ECON 310 Quantitative Methods and Applications	5
MGMT 280 Communication for Business	5

Economics

Barbara M. Yates, PhD, Chairperson

Objectives

The courses in economics are designed to acquaint students with the economy in which they live and to relate these courses to all other social sciences. The analytical approach in the economics courses provides the students with the tools of analysis necessary to solve problems and make decisions in the government and private sector. The major courses cover topics such as economic fluctuations and growth, income distribution, international trade and finance, urban problems, industry analysis, and the economics of the environment. Students who perform especially well are encouraged to pursue graduate work in preparation for professional status as economists in government, industry, or the academic world. A major in economics, in combination with selected courses in political science, communications, and business, provides excellent preparation for law school and MBA or MPA programs.

Degree Offered

Bachelor of Arts in Economics

Major Offered

Economics

Minor Offered

Economics

Bachelor of Arts in Economics

In order to earn the bachelor of arts in economics degree with a major in economics, students must complete a minimum of 180 quarter credits with a cumulative and major grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)*	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I (not economics)	.....	5
Social Science II (different from Soc Science I; not economics)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5

Interdisciplinary 3 to 5
 Senior synthesis filled by ECON 470 or 489.

*Major requirement and must earn a C- grade or better.
 See detailed core curriculum information in this bulletin

II. Major Requirements*

Seventy credits, including:

CSSE 103	Introduction to Computer Applications	5
ECON 260	Business Statistics	5
ECON 271	Principles of Economics-Macro	5
ECON 272	Principles of Economics-Micro	5
ECON 310	Quantitative Methods and Applications	5
ECON 330	International Economics Events and Business Decisions	5
ECON 374	Intermediate Microeconomics	5
ECON	Electives	30

(Choose from upper division ECON courses, excluding ECON 377, 386, and 479. FINC 443 may be included.)

Choose one of two courses for senior synthesis: 5

ECON 470	History of Economic Thought
ECON 489	Senior Research (with permission of department chair)

III. Additional Requirements

General electives to total 180 40-42
 ACCT 230 Principles of Financial Accounting and MGMT 280 Communications for Business are highly recommended general electives.

Please Note: 1. For the bachelor of arts in economics, (BA ECON) at least 20 credits of the economics electives must be at a 400 level. 2. ECON 377, 386, and 479 will not satisfy any of the upper-division economic electives. 3. Internships or independent studies may not satisfy major requirements.

*Major requirements must earn a C- grade or better.

Minor in Economics

A minor in economics requires students to complete 30 credits of economics, which must include ECON 271, 272, 330, 374, and 10 credits of 300-level or 400-level electives in economics, selected with the assistance of an adviser.

ECON 377, 386, and 489 will not satisfy the upper division electives. See minor listings following major programs and policy for minors on p. 46.

Finance

Barbara M. Yates, PhD, Chairperson

Objectives

The courses in the finance curriculum are designed to provide the students with the theoretical and technical knowledge students need to become effective financial decision makers. The curriculum emphasizes the importance of the finance function in a business setting as well as the role it has in the efficient allocation of resources in the economy.

Degree Offered

Bachelor of Arts in Business Administration

Major

Finance

Bachelor of Arts in Business Administration Major in Finance

In order to earn the bachelor of arts in business administration degree with a major in finance, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)*	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I (not economics)	.....	5
Social Science II (ECON 271 required)*	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

II. Additional ASBE Requirements

Non-business Elective (or MATH 118*)	.....	5
CSSE 103	Introduction to Computers and Application*	5

*Major requirements and must earn a C- grade or better.
See detailed core curriculum information in this bulletin.

Choose one of the following two courses: 5

MGMT 320	Global Environment of Business	
ECON 330	Int'l Economic Events and Business Decisions	
FINC 340	Business Finance	5
MKTG 350	Introduction to Marketing	5
OPER 360	Manufacturing and Service Operations	5
BLAW 370	Business and International Law	5
MGMT 380	Principles of Management	5
MGMT 489	Business Policy and Strategy	5

IV. Major Requirements*

Twenty-five credits, including:

FINC 342	Intermediate Corporate Finance	5
FINC 344	Investments and Portfolio Theory	5
FINC 443	Financial Institutions and Markets	5
FINC	Electives	10

(Choose from ECON 330, FINC 440, 441, 444, 445, 446, 450, or other approved upper-division finance courses.)

V. Additional Requirements

General electives to total 180	15
Additional accounting and economics courses recommended.	

Please Note: Finance majors must take ECON 330 as part of the business foundation or as one of the two elective courses in the major. Internships and independent studies may not satisfy a major requirement.

* Major requirements and must earn a C- grade or better.

Individualized Major in Business Administration

Objectives

The individualized major in business administration provides the opportunity for a broad survey of business subjects. It is designed for students who intend to operate their own business enterprises, those who expect to attain greater specialization through on-the-job programs, or those who plan for later study in a specific area.

Degree Offered

Bachelor of Arts in Business Administration

Major Offered

Individualized Major in Business Administration

Bachelor of Arts in Business Administration Individualized Major in Business Administration

In order to earn the bachelor of arts in business administration degree with an individualized major in business administration, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)*	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I (not economics)		5
Social Science II (ECON 271 required)*		5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

*Major requirements and must earn a C- grade or better.
See detailed core curriculum information in this bulletin.

II. Additional ASBE Requirements

Non-business Elective (or MATH 118*) 5
 CSSE 103 Introduction to Computers and Application* 5

III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230 Principles of Accounting I 5
 ACCT 231 Principles of Accounting II 5
 ECON 260 Business Statistics 5
 ECON 272 Principles of Economics—Micro 5
 ECON 310 Quantitative Methods and Applications 5
 MGMT 280 Communication for Business 5

Choose one of the following two courses: 5

MGMT 320 Global Environment of Business
 ECON 330 Int'l Economic Events and Business Decisions

FINC 340 Business Finance 5
 MKTG 350 Introduction to Marketing 5
 OPER 360 Manufacturing and Service Operations 5
 BLAW 370 Business and International Law 5
 MGMT 380 Principles of Management 5
 MGMT 489 Business Policy and Strategy 5

IV. Major Requirements*

Upper division business/economics 25
 Individualized business majors must complete at least 25 credits of upper-division work in business and/or economics from at least three different disciplines, selected with an adviser's approval. At least 10 of the credits must be 400-level courses.

V. Additional Requirements

General electives to total 180 15

Please note: Internships and independent studies may not be used to satisfy a major requirement.

*Major requirements must earn a C- grade or better.

International Business

C. Patrick Fleenor, PhD, Program Director

Objectives

The international business major prepares students for careers with firms engaged in international business. Emphasis is placed on perceiving the problems and opportunities of operating in an international environment.

Degree Offered

Bachelor of Arts in Business Administration

Major Offered

International Business

Minor Offered

International Business

Bachelor of Arts in Business Administration Major in International Business

In order to earn the bachelor of arts in business administration degree with a major in international business, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses:

HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	

ENGL 120	Masterpieces of Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)*	5
FINR 120	or approved fine arts alternate.....	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I (not economics)	.....	5
Social Science II (ECON 271 required)*	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

*Major requirements and must earn a C- grade or better.
See detailed core curriculum information in this bulletin.

II. Additional ASBE Requirements

Non-business elective (or MATH 118*)	5
CSSE 103 Introduction to Computers and Application*	5

III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230	Principles of Accounting I	5
ACCT 231	Principles of Accounting II	5
ECON 260	Business Statistics	5
ECON 272	Principles of Economics—Micro	5
ECON 310	Quantitative Methods and Applications	5
MGMT 280	Communication for Business	5

Choose one of the following two courses:

MGMT 320	Global Environment of Business	
ECON 330	Int'l Economic Events and Business Decisions	
FINC 340	Business Finance	5
MKTG 350	Introduction to Marketing	5
OPER 360	Manufacturing and Service Operations	5
BLAW 370	Business and International Law	5
MGMT 380	Principles of Management	5
MGMT 489	Business Policy and Strategy	5

IV. Major Requirements*

Twenty-five upper-division credits, plus supplemental activities:

ECON 386	International Business Enterprise	5
MGMT 486	International Management	5
Electives	(Choose two from BLAW 476, FINC 446, MKTG 456)	10
Elective	Business/economics course with an international focus	5

V. Additional Requirements

General electives to total 180	15
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Supplemental activities may satisfy general elective requirements.

VI. Supplemental Activities

Choose two activities from the following four:

1. Demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. No courses in the sequence may be taken on a pass-fail, correspondence, or audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. See the foreign language department for details on the examinations. Latin and other languages not in use will not be accepted.
2. A two-quarter, five-credit internship with a company involved in international business in the Seattle area, approved by the Albers Placement Center.
3. A minimum of one quarter (15 quarter credits) of related studies abroad in an acceptable program. The course work must be approved prior to study abroad by the Albers School and Seattle University.
4. International studies minor.

Please note: Internships and independent studies may not be used to satisfy a major requirement.

*Major requirements must earn a C- grade or better.

Management

Robert Callahan, PhD, Program Director

Objectives

Management is a critical function for every organization, and people trained in management play this important role in organizations of every size and type. The skills, techniques, and theories acquired by the management major lead to jobs in business, government, and the non-profit sector. People who plan to establish their own firms or to become part of a family-owned firm also pursue a management major. Coursework in this major helps individuals learn to a) motivate, lead, and develop others; b) structure organizations capable of meeting both profit and social responsibility goals; c) work well in accomplishing work individually and through others; d) communicate accurately; and e) develop a strategic perspective on organization.

Degree Offered

Bachelor of Arts in Business Administration

Major Offered

Management

Bachelor of Arts in Business Administration Major in Management

To earn the bachelor of arts in business administration degree with a major in management, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses:

HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	

ENGL 120	Masterpieces of Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)*	5
FINR 120	or approved fine arts alternative	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I (not economics)	.....	5
Social Science II (ECON 271 required)*	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

*Major requirements and must earn a C- grade or better.
See detailed core curriculum information in this bulletin.

II. ASBE Arts and Sciences Requirements

Non-business Elective (or MATH 118*)	5
CSSE 103 Introduction to Computers and Applications*	5

III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230 Principles of Accounting I	5
ACCT 231 Principles of Accounting II	5
ECON 260 Business Statistics	5
ECON 272 Principles of Economics-Micro	5
ECON 310 Quantitative Methods and Applications	5
MGMT 280 Communication for Business	5

Choose one of the following two courses:

MGMT 320 Global Environment of Business		5
ECON 330 Int'l Economic Events and Business Decisions		5
FINC 340 Business Finance		5
MKTG 350 Introduction to Marketing		5
OPER 360 Manufacturing and Service Operations		5
BLAW 370 Business and International Law		5
MGMT 380 Principles of Management		5
MGMT 489 Business Policy and Strategy		5

IV. Major Requirements*

Twenty-five credits, including:

MGMT 383 Human Resource Management	5
MGMT 471 Adventure Based Leadership Seminar	5
MGMT Electives	15
(Choose from MGMT 320, 382, 479, 481, 485, 486, 491, OPER 466, or other approved 300- 400-level management courses.)	

V. Additional Requirements

General electives to total 180	15
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Please note: 1. MGMT 320 is an approved elective when ECON 330 satisfies the ASBE foundation requirements. 2. Internships and independent studies may not be used to satisfy a major requirement.

*Major requirements must earn a C- grade or better.

Marketing

Rex Toh, PhD, Program Director

Objectives

Marketing is the study of the flow of goods and services to ultimate consumers and users. Career opportunities in marketing are found in manufacturing, wholesaling and retailing, marketing research, and in the promotional areas of advertising and personal selling.

Degree Offered

Bachelor of Arts in Business Administration

Major Offered

Marketing

Bachelor of Arts in Business Administration Major in Marketing

In order to earn the bachelor of arts in business administration degree with a major in marketing, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses:

HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	

ENGL 120	Masterpieces of Literature	5
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MATH 130	Elements of Calculus for Business (or MATH 134)*	5
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FINR 120	or approved fine arts alternate	5
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PHIL 220	Philosophy of the Human Person	5
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Lab Science	5
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Social Science I (not economics)	5
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Social Science II (ECON 271 required)*	5
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Theology and Religious Studies Phase II (200-299)	5
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Ethics (upper division)	5
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Theology and Religious Studies Phase III (300-399)	5
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Interdisciplinary satisfied within major.

Senior Synthesis satisfied by MGMT 489

*Major requirements and must earn a C- grade or better.

See detailed core curriculum information in this bulletin.

II. Additional ASBE Requirements

Non-business elective (or MATH 118*)	5
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CSSE 103	Introduction to Computers and Applications*	5
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III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230	Principles of Accounting I	5
ACCT 231	Principles of Accounting II	5
ECON 260	Business Statistics	5
ECON 272	Principles of Economics—Micro	5
ECON 310	Quantitative Methods and Applications	5
MGMT 280	Communication for Business	5
Choose one of the following two courses:		5
MGMT 320	Global Environment of Business	
ECON 330	Int'l Economic Events and Business Decisions	
FINC 340	Business Finance	5
MKTG 350	Introduction to Marketing	5
OPER 360	Manufacturing and Service Operations	5
BLAW 370	Business and International Law	5
MGMT 380	Principles of Management	5
MGMT 489	Business Policy and Strategy	5

IV. Major Requirements*

Twenty-five credits, including:

MKTG 351	Buyer Behavior	5
MKTG 451	Marketing Research	5
MKTG	Electives	15
(Choose from MKTG 352, 353, 354, 355, 356, 452, 456, 491, or other approved 300- or 400-level marketing courses.)		

V. Additional Requirements

General electives to total 180	15
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Please Note: 1. ECON 374, 472, and 473 are strongly recommended as general electives.
2. Internships and independent studies may not be used to satisfy a major requirement.

*Major requirements must earn a C- grade or better.

Risk Management

Barbara M. Yates, PhD, Program Director

Objectives

The risk management major provides students with an understanding of the various risks firms and individuals can face: operating risks, legal exposures, political risks, and financial and market related risks. In addition to identifying and quantifying risk, students study methods to manage risk through insurance, loss prevention, hedging and other techniques. Graduates of the program are prepared to take positions in risk management in corporations, financial institutions or government agencies, as well as firms focusing on controlling risk, such as insurance companies and risk management consulting firms. The major also serves as an excellent platform beyond risk management and insurance for graduates pursuing careers in management, marketing, and finance.

Degree Offered

Bachelor of Arts in Business Administration

Major Offered

Risk Management

Bachelor of Arts in Business Administration Major in Risk Management

In order to earn the bachelor of arts in business administration degree with a major in risk management, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.25, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses:

HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	

ENGL 120	Masterpieces of Literature	5
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MATH 130	Elements of Calculus for Business (or MATH 134)*	5
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FINR 120	or approved fine arts alternate	5
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PHIL 220	Philosophy of the Human Person	5
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Lab Science	5
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Social Science I (not economics)	5
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Social Science II (ECON 271 required)*	5
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Theology and Religious Studies Phase II(200-299)	5
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Ethics (upper division)	5
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Theology and Religious Studies Phase III(300-399)	5
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Interdisciplinary satisfied within major		
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Senior Synthesis satisfied by MGMT 489		
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See detailed core curriculum information in this bulletin

* Major requirements and must earn a C- grade or better.

II. Additional ASBE Requirements

Non-business elective (or MATH 118*) 5
 CSSE 103 Introduction to Computers and Applications* 5

III. ASBE Business Foundation Requirements*

Sixty-five credits, including:

ACCT 230 Principles of Accounting I 5
 ACCT 231 Principles of Accounting II 5
 ECON 260 Business Statistics 5
 ECON 272 Principles of Economics—Micro 5
 ECON 310 Quantitative Methods and Applications 5
 MGMT 280 Communication for Business 5

Choose one of the following two courses: 5

MGMT 320 Global Environment of Business
 ECON 330 Int'l Economic Events and Business Decisions

FINC 340 Business Finance 5
 MKTG 350 Introduction to Marketing 5
 OPER 360 Manufacturing and Service Operations 5
 BLAW 370 Business and International Law 5
 MGMT 380 Principles of Management 5
 MGMT 489 Business Policy and Strategy 5

IV. Major Requirements*

Twenty-five credits, including:

FINC 440 Risk Assessment and Analysis 5
 FINC 445 Financial Risk Management 5
 FINC 450 Enterprise Risk Management 5
 FINC Electives 10
 (Choose from FINC 342, 344, 441, 443, 446, or other approved upper-division finance courses. An appropriate course in law or quantitative methods may serve as one of the electives with the permission of the department chair.)

In addition, students must complete an approved internship in the risk management and insurance field. The internship need not be for credit.

V. Additional Requirements

General electives to total 180 15

Please Note: 1. Risk management students must take ECON 330 rather than MGMT 320 or take ECON 330 as one of the two elective courses in the major. 2. Internships and independent studies will not satisfy a major requirement.

*Major requirements must earn a C- grade or better.

Minor in Business Administration

To earn a minor in business administration, students must complete a set of seven business courses beyond the non-business prerequisite courses in mathematics, computer science, and economics. One of the mathematics courses and one of the economics courses could fulfill university core requirements.

Prerequisite courses:

MATH 118	College Algebra (or MATH 120)	5
CSSE 103	Introduction to Computer Applications	5

Business courses:

ECON 271/272	Macro or Microeconomics	5
MGMT 280	Communication for Business	5
ACCT 230	Principles of Accounting I	5

Choose three courses from the following options 15

MKTG 350	Introduction to Marketing
MGMT 380	Principles of Management
BLAW 370	Business and International Law
MGMT 320	Global Environment of Business
FINC 340	Business Finance*
OPER 360	Manufacturing and Service Operations*
Elective	300- 400-level business or economics*

Please Note: 1. Courses used toward a minor in business administration are subject to the same grade minimums as those in a business administration major. 2. Students applying for the minor are required to take at least 20 credits in business from Seattle University. 3. Students pursuing a BABA degree may not minor in business administration. See policy for minors on p. 46. 4. Classes marked with an * require additional course prerequisites beyond those required in the minor.

Minor in Economics

To earn a minor in economics, students must complete thirty credits of economics, including the following:

ECON 271	Principles of Economics-Macro	5
ECON 272	Principles of Economics-Micro	5
ECON 330	International Economic Events and Business Decisions	5
ECON 374	Intermediate Microeconomics	5
ECON	Electives 300-400 level (see adviser)	10

Please Note: 1. Courses used toward a minor in economics are subject to the same grade minimums as those in an economics major. 2. ECON 377, 386 and 479 will not satisfy the upper division economics electives. See policy for minors on p. 46.

Minor in International Business

Students seeking the minor must take as part of their university core, major, or minor requirements, the following:

Prerequisite Courses:

MATH 130	Elements of Calculus for Business (or MATH 134)
MGMT 280	Communication for Business
ECON 271	Principles of Economics: Macro
ECON 272	Principles of Economics: Micro
CSSE 103	Introduction to Computers and Applications

Business Foundation Courses:

ECON 260	Business Statistics	5
ACCT 230	Principles of Accounting I	5
ACCT 231	Principles of Accounting II	5
FINC 340	Business Finance	5
MKTG 350	Introduction to Marketing	5
MGMT 380	Principles of Management	5

Minor Requirements:

ECON 386	International Business Enterprise	5
MGMT 486	International Management	5

Choose four courses from the following options: 20

ECON 330	International Economic Events and Business Decisions
MGMT 320	Global Environment of Business
BLAW 370	Business and International Law
BLAW 476	International Law
FINC 446	International Corporate and Trade Finance
MKTG 456	International Marketing
Other international electives approved by the director of international business	

Supplemental Activities:

Choose one supplemental activity from the following four:

1. Demonstrate competency in a foreign language through the 135 level. This competency is ordinarily achieved by successful completion of the three-course sequence: 115, 125, and 135. No course in the sequence can be taken pass-fail, correspondence, or by audit basis. Placement into other than the beginning course of the sequence is achieved by acceptable performance on the Foreign Language Competency Examination. Latin and other languages not in use will not be accepted.
2. A five-credit internship with a company involved in international business approved by the Albers Placement Center.
3. An international study tour sponsored by the Albers School of Business and Economics.
4. A minimum of one quarter (15 quarter credits) of related studies abroad in an acceptable program. The course work must be approved prior to study abroad by the Albers School and Seattle University.

Please Note: 1. Courses used toward a minor in international business are subject to the same grade minimums as those in an international business major. 2. Students applying for the minor are required to take at least 20 credits in international business at Seattle University. See policy for minors on p. 46.

Double Concentration

Students pursuing a BABA degree may earn a double concentration in two areas of business by completing a minimum of 190 credits and the degree requirements for both majors. Students must complete at least 25 credits in each major. Courses may not satisfy requirements for both concentration areas. If the same course is required in both majors, students must substitute another elective course from one of the major areas. Individualized major may not be one of the areas for double concentration.

Accelerated Programs

Five-Year BABA-MBA Program

The Albers School of Business and Economics offers an opportunity for academically superior undergraduates to accelerate their undergraduate work and be granted early admission to the MBA program. The program allows students to complete a bachelor of arts in business administration and a master of business administration in a five-year time span. This program is open to full-time undergraduates with a minimum 3.4 grade point average. Part-time undergraduates and transfer students can participate in the program on a modified schedule. Interested students should contact the undergraduate program chair.

Five-Year Program: BA Economics with Business Administration Minor and MBA

The Albers School of Business and Economics offers an opportunity for academically superior undergraduates to accelerate their undergraduate work and be granted early admission to the MBA program. The program allows students to complete a bachelor of arts in economics, a minor in business administration and a master of business administration in a five-year span. This program is open to full-time undergraduates with a minimum 3.4 grade point average. Part-time undergraduates and transfer students can participate in the program on a modified schedule. Interested students should contact the undergraduate program chair.

Five-Year Program: Bachelor's Degree and Master of Arts in Applied Economics (MAE)

The Albers School of Business and Economics offers an opportunity for academically superior undergraduates to accelerate their undergraduate work and be granted early admission to the MAE program. The program allows students to complete a bachelor's degree in one of many majors and a master of arts in applied economics in a five-year period. This program is open to full-time undergraduates with at least a 3.4 grade point average. Part-time undergraduates and transfer students can participate in the program on a modified schedule. Interested students should contact the undergraduate program chair.

Certificate of Post-Baccalaureate Studies

The Albers School of Business and Economics offers 1) an undergraduate certificate in business for students with a bachelor's degree in a non-business area and 2) certificates in specific disciplines for students with a bachelor's degree in business. The certificates of

post-baccalaureate studies in business provide an opportunity for graduates of non-business undergraduate programs to develop expertise and acquire credentials in the business area while earning college credits. The curriculum requires between six and 13 courses, depending on prior course work. It largely replicates the required courses for a minor in business. The academic credit may also be applicable to other degree program requirements. The certificate of post-baccalaureate studies in accounting, business economics, finance, international business, and other fields provide opportunities for qualified business graduates to develop expertise and acquire a credential in an area of specialization beyond the bachelor's in business degree while earning college credits. The curriculum consists of a selection of six or seven undergraduate courses, at least four of which must be in the discipline named in the certificate. To avoid duplication of previous course work, courses in related disciplines may be substituted for classes in the named discipline.

The program is open to graduates of regionally accredited bachelor's programs only. The application process will require preparation of an application form, payment of fees, and submission of transcripts. For admission, a student's academic performance must be equal to or better than the standards for admission to and graduation from the Seattle University BABA program. Seattle University graduates usually will be considered automatically eligible for the program. Students will register as regular certificate-seeking undergraduate students at Seattle University and must earn a 2.25 cumulative grade point average in the courses applied to the certificate. In addition, students must earn a C- grade or better in each course required for the certificate. In the final term of coursework for the certificate the student files a certificate application with the registrar. Deadlines are: for fall completion, apply by October 30; for winter, January 30; for spring, April 30; for summer, July 30. For more information about these certificate programs, contact the director of undergraduate programs in the Albers School.

Certificate in Business Education and/or Marketing

The School of Education, in cooperation with the Albers School of Business and Economics, offers teacher certification in business education and/or marketing. Before applying for this certificate program, interested students should speak with the chairperson of teacher education in the School of Education concerning course requirements that cannot be met at Seattle University.

Business and Economics Courses

- ACCT 230 Principles of Accounting I (Financial) 5**
Introduction to financial accounting concepts with emphasis on the development of the student's ability to understand and interpret financial statements of business entities. Prerequisite: Sophomore standing. (fall, winter, spring)
- ACCT 231 Principles of Accounting II (Managerial) 5**
Introduction to the use of accounting information for decision-making in planning and controlling the operation of business organizations. Prerequisites: ACCT 230, CSSE 103, and sophomore standing. (fall, winter, spring)
- ACCT 301 Accounting: Information Systems, Tools and Concepts 5**
The study and application of computer software tools to solve a wide range of accounting-related business problems. Problems will include those found in the areas of intermediate financial, managerial, cost, tax accounting, and auditing. Emphasis will be a hands-on application approach to computer-based accounting information systems data analysis. Course material will also include current readings for both accountants and business managers. Problem solutions, while being computationally intensive, will also develop written and oral communication skills. Prerequisites: ACCT 231, MGMT 280, junior standing in the Albers School.
- ACCT 311 Intermediate Accounting I 5**
Theory and development of accounting principles; evolution of accounting theory and practice relating to the assets of the entity and the measurement and reporting of periodic income. Introduction to international accounting issues and accounting changes. Emphasis on interpreting professional accounting standards and on further developing communications and computer skills. Prerequisites: ACCT 301.
- ACCT 312 Intermediate Accounting II 5**
Evolution of accounting theory and practice relating to liabilities and owners' equities, including accounting for income taxes, leases, and pensions. Coverage of the statement of cash flows and financial disclosures. Expand knowledge of international accounting issues and changes. Continued emphasis on interpreting and applying professional accounting standards and on developing communications and computer skills. Prerequisite: ACCT 311.
- ACCT 330 Cost Accounting 5**
Determination of manufacturing costs in service and manufacturing environments. The course will focus on cost determination in job order and process cost systems, including standard cost measurement. Introduction to methods of cost control. An emphasis on cost information for decision making, including ethical issues, and further development of communication and computer skills. Prerequisites: ACCT 301.
- ACCT 336 Federal Income Tax I 5**
Introduction to a broad range of tax concepts and types of taxpayers. Emphasis on the role of taxation in the business decision-making process. Provides students with the ability to conduct basic tax research and tax planning. Specific tax topics include gross income and deductions, compensation, property transactions, and types of business entities. Prerequisites: ACCT 231, MGMT 280, and junior standing in the Albers School.

- ACCT 437 Advanced Accounting and Information Systems 5**
 The development of accounting information system analysis and design skills through their application in an actual business setting. Skill development begins with the analysis of the environment and processes of the business, and includes application of analytical tools and concepts such as systems development life cycle, data modeling and software selection algorithms. The student is expected to obtain a reading level understanding of current information system hardware, software and networking alternatives. Prerequisites: ACCT 330, 312, CSSE 103.
- ACCT 491 Special Topics 2 to 5**
- ACCT 495 Internship 1 to 5**
 Open to senior business majors with adviser's approval. Mandatory CR/F and will not satisfy a major requirement.
- ACCT 496 Independent Study 1 to 5**
- ACCT 497 Directed Reading 1 to 5**
- ACCT 498 Directed Research 1 to 5**
 ACCT 496, 497, 498 are supervised individual study. Open to senior business majors with the approval of the student's adviser. Mandatory CR/F and will not satisfy a major requirement.
- BLAW 291 Special Topics 1 to 5**
- BLAW 370 Business and International Law 5**
 Includes traditional legal issues, including nature and development of law, structure and functions of the courts, civil and criminal procedure, and contracts. The course will focus on the legal environment that exists for U.S. businesses because of the increased international business activities. Prerequisites: junior standing in the Albers School. (fall, winter, spring)
- BLAW 476 International Law 5**
 Substantial focus on international contracts, specifically laws relating to international sales, commercial transactions, shipping, letters of credit, methods of payment and resolution of international disputes. Lectures include discussion of the General Agreement on Tariffs and Trade, import duties, export restrictions and use of foreign representatives. Prerequisites: BUEN 370.
- BLAW 491 Special Topics 2 to 5**
- BLAW 495 Internship 1 to 5**
 Open to senior business majors with adviser's approval. Mandatory CR/F and will not satisfy a major requirement.
- BLAW 496 Independent Study 1 to 5**
- BLAW 497 Directed Reading 1 to 5**
- BLAW 498 Directed Research 1 to 5**
 Supervised individual work. Open to senior business majors with the approval of the student's adviser. Mandatory CR/F and will not satisfy a major requirement.
- BUEN 291 Special Topics 1 to 5**
- BUEN 491 Special Topics 2 to 5**

BUEN 495 Internship 1 to 5
Open to senior business majors with adviser's approval. Mandatory CR/F and will not satisfy a major requirement.

BUEN 496 Independent Study 1 to 5

BUEN 497 Directed Reading 1 to 5

BUEN 498 Directed Research 1 to 5

Supervised individual work. Open to senior business majors with the approval of the student's adviser. Mandatory CR/F and will not satisfy a major requirement.

ECIS 315 Introduction to Information Systems and E-Commerce 5

This introductory course covers general concepts rather than specific areas (i.e., coverage is on breadth, not depth). Areas addressed include, but are not limited to: key business applications, e-commerce and the Internet, system development, outsourcing, networking and data communications, data and databases, and security. Computer assignments include: building a simple web page, building an e-commerce test storefront, and other assignments to be determined. (Prerequisite: CSSE 103 or instructor permission)

ECIS 462 Internet Marketing 5

Introduces students to the concepts, tools, and strategies for understanding and exploiting opportunities associated with electronic commerce and will focus on the strategic aspects of marketing using the Internet. The Internet has developed into an important vehicle for electronic commerce, far surpassing private networks in terms of its impact on business practices. The Internet is dramatically altering the way business is conducted on a local and global basis. Among other things, it is making it possible to change the way organizations conduct business, provide customer service, interact with internal and external stakeholders, advertise, develop products, build brands, generate new prospects, monitor the marketplace, and distribute products and services. (Prerequisite: MKTG 350 or instructor permission)

ECIS 464 Object-Oriented Modeling in Business 5

Introduces an object-oriented way of modeling businesses for the purpose of building information systems. Object-orientation will be explained at each stage of information system development, i.e., planning, analysis, design, and implementation. Students will be required to build applications using an object-oriented programming tool. (Prerequisites: junior standing in the Albers School or instructor permission)

ECIS 466 Database Systems in Business 5

Introduces the fundamental concepts and implementations of database systems. Class time will be spent on the relational model as well as the entity-relationship model. Students will become proficient in designing and programming database systems. Use of relational database management system and a computer aided software engineering tool for instruction and assignments. (Prerequisite: junior standing in the Albers School or instructor permission)

- EICIS 469 Strategies and Technologies on the Internet 5**
Understanding of the technical aspect of the Internet is critical to appreciate and develop new business opportunities for e-commerce. Technology issues covered include communication protocols and design of Internet applications. Major players in each market segment are identified and a new set of business models and strategies for becoming a dominant company are discussed. (Prerequisite: junior standing in Albers School or instructor permission)
- ECON 260 Business Statistics 5**
Introduces the business and economics student to basic statistical procedures, concepts, and computer applications used in the business world. Instruction in descriptive statistics, probability, decision theory, probability distributions, sampling distributions, statistical inference, chi-square analysis, and correlation. Prerequisites: MATH 130, 134, or equivalent, CSSE 103, sophomore standing. (fall, winter, spring)
- ECON 271 Principles of Economics—Macro 5**
Organization, operation, and control of the American economy in its financial and socio-political settings; problems of inflation, unemployment, taxation, the public debt, money, and banking growth. (fall, winter, spring)
- ECON 272 Principles of Economics—Micro 5**
Operation of the American economy with emphasis on prices, wages, production, and distribution of income and wealth; problems of the world economy. (fall, winter, spring)
- ECON 310 Quantitative Methods and Applications 5**
A continuation of ECON 260 with particular emphasis on the following topics: regression analysis, analysis of variance, reliability and validity, and linear programming. Major emphasis will be placed on computer applications of the quantitative methods applicable to business functional areas and on the enhancement of the student's communication, analytical, and computer skills. Prerequisite: CSSE 103 and ECON 260. (fall, winter, spring)
- ECON 330 International Economic Events and Business Decisions 5**
Develops the economic theory necessary to understand how the international macroeconomy works and influences the behavior and success of business. Emphasis on the impact of international macroeconomic events and how those events affect a firm's ability to compete. Prerequisites: ECON 271. Serves as intermediate macroeconomics course for economics majors and minors. (fall, winter, spring)
- ECON 370 American Economic History 5**
A study of the key developments in American economic history; application of economic analysis to historical data and events; development of economic institutions. Does not satisfy ECON elective for business economics majors. Prerequisites: ECON 271, 272.
- ECON 374 Intermediate Microeconomics 5**
Demand, supply, costs, and market prices under competitive and imperfectly competitive market conditions. Relationships between price and costs; income and its functional distributions in a capitalistic society. Prerequisite: ECON 272; MATH 130 or MATH 134.

ECON 376 Economic Development 5
Developing nations and agriculture, industry, population, education, technology, exports, imports, capital and savings, unemployment. Commodity agreements. Special preferences. Foreign aid. U.N.C.T.A.D. Prospects and limits. Prerequisite: ECON 271, 272.

ECON 377 American Competitiveness 5
Productivity, distribution, investment, technology, and trade characteristics of the U.S. economy. Comparison with Japan and Europe. Consideration of the role of government: ethical and moral dimensions. Prerequisite: ECON 271 or 272. Interdisciplinary core course. Does not satisfy requirement toward business economics major, economics major or minor.

ECON 379 Comparative Economic Systems 5
Economic systems in theory and practice. Classical, Marxian, neoclassical, Keynesian, post-Keynesian theories. Soviet agricultural and industrial organization and operation. Market socialism. Future trends. Prerequisites: ECON 271 and 272.

ECON 386 International Business Enterprise 5
Examines changes in the international competitive environment and how business should respond to remain competitive in the global marketplace. Prerequisites: ECON 271 and 272. For international business, business economics, and international studies majors; does not fill requirement for economics majors or minors.

ECON 391 Special Topics 1 to 5

ECON 463 Applied Econometrics 5
Study of the theory and application of econometrics for students who need to understand and use regression, generalized least squares, and simultaneous equations. Prerequisites: MATH 130 or 134; ECON 310.

ECON 468 Natural Resource and Environmental Economics 5
Covers the economic analysis related to natural resource use, including depletable and renewable resources. Environmental topics include pollution, preservation, conservation, and development. Prerequisites: ECON 271 and 272.

ECON 470 History of Economic Thought 5
Major historical developments in economic thought, ancient to contemporary, Christian influence, mercantilism, laissez faire; German and Austrian schools, Marx and socialists; Keynes and neo-Keynesian analysis. Prerequisites: ECON 271 and 272. Can serve as Senior Synthesis for economics majors. Does not satisfy ECON elective for business economics majors.

ECON 471 Government Finance 5
Revenues, expenditures, and debts of federal, state, and local governments; public-sector pricing and investment; government finance as means for social reform; shifting and incidence of taxes. Prerequisites: ECON 271 and 272.

ECON 472 International Trade 5
Pattern, organization, and promotion of U.S. and world trade. Trade theories. Exchange rates. Foreign prices and payments. Protection and free trade. G.A.T.T. European Community. Multinationals in foreign trade. Prerequisites: ECON 271 and 272.

- ECON 473 International Macroeconomics and Finance 5**
Impact of international trade and finance on the macroeconomy and government policy. Topics include exchange rate determination, the balance of payments, operations of the international monetary system. Prerequisites: ECON 271 and 272. ECON 330 recommended.
- ECON 474 Forecasting Business Conditions 5**
Introduction to casual and ad hoc time series methods of forecasting utilized by business firms. Regression, exponential smoothing, decomposition, and Box Jenkins methods are included. Prerequisites: ECON 271, 272 and 310.
- ECON 475 Industrial Organization 5**
Analysis of the market structure of American business and effects of different market structures on pricing, marketing, innovation, and profit seeking. Prerequisites: ECON 271 and 272. ECON 374 recommended.
- ECON 476 Labor Economics 5**
Survey of the economics of industrial relations; effects of industrial changes on labor, hours, and wages; employment and unemployment; trade unionism and labor legislation. Prerequisites: ECON 271 and 272.
- ECON 478 Urban/Regional Economics 5**
The causes and consequences of the interdependencies of firms, individuals, households, and governmental units within the constrained space of urban areas. Problems of land, housing, transportation, labor, and public services. Prerequisite: ECON 272.
- ECON 485 Topics in Macroeconomics 5**
Topics such as business cycles, growth theory and policy, open economy issues. Prerequisites: ECON 272, ECON 330.
- ECON 489 Senior Research 5**
An advanced course providing the opportunity for students to pursue topics in breadth and depth, and to apply the tools of economic analysis to current issues in national and international economic policy. Prerequisite: permission of department chair and three faculty member committee. Limited to economics majors fulfilling Senior Synthesis requirement. Does not satisfy economics elective for business economics major or economics minor.
- ECON 491 Special Topics 2 to 5**
- ECON 495 Internship 1 to 5**
Open to senior economics majors with adviser's approval. Mandatory CR/F and will not satisfy a major requirement.
- ECON 496 Independent Study 1 to 5**
- ECON 497 Directed Reading 1 to 5**
- ECON 498 Directed Research 1 to 5**
ECON 496, 497, 498 are supervised individual work. Open to senior economics majors with approval of adviser. Must be taken CR/F as non-major elective and will not satisfy a major requirement.

- FINC 340 Business Finance 5**
Study of the financial policies and practices of business firms; planning, control, and acquisition of short-term and long-term funds; management of assets; evaluation of alternative uses of funds; capital structure of the firm; cost of capital; financing growth and expansion of business firms. Prerequisites: ECON 271, ACCT 231, and junior standing in the Albers School. (fall, winter, spring)
- FINC 342 Intermediate Corporate Finance 5**
Working capital management, advanced capital budgeting, lease versus buy analysis, dividend policy, capital structure theory, long-term sources of finance and contingent claims as they apply to corporate financial management. Prerequisite: FINC 340.
- FINC 344 Investments and Portfolio Theory 5**
An introduction to financial investments: the theory, practice and empirical research. Emphasis is placed on developing the risk/return relationship. Topics include modern portfolio theory, (CAPM, APT) market efficiency, derivative assets (options, futures), the pricing of contingent claims, and the influence of taxes and inflation. Prerequisite: FINC 340.
- FINC 391 Special Topics 2 to 5**
- FINC 440 Risk Assessment and Analysis 5**
An introduction to the evolution, theory, and economics of risk. Develops emerging concept of enterprise risk management, exploring identification, measurement, prioritization and impact of operational, legal, political and financial/market risks, including next generation risk in a rapidly changing global environment. Application of analytical tools from value at risk models to information systems for risk analysis. Prerequisite: FINC 340.
- FINC 441 Case Problems in Finance 5**
Through the use of cases, students develop skills in identifying problems, conducting analysis, and using financial theory for making decisions in simulated business settings. Investigates strategies for linking risk management with overall corporate strategy. Prerequisite: FINC 342.
- FINC 443 Financial Institutions and Markets 5**
The nature, role, and operation of financial institutions and markets in the economy. The impact on the financial system and industries such as banking and insurance of rapidly changing structural, policy, and international conditions. Focus is on the institutional setting facing businesses today as they cope with financing and risk management concerns. Prerequisites: ECON 271, FINC 340.
- FINC 444 Security Analysis 5**
Analysis of the securities of public entities and private firms from both individual and institutional viewpoints. Prerequisite: FINC 340.
- FINC 445 Financial Risk Management 5**
Develops a methodology to establish an organization's risk tolerance policy based on financial capacity and operational strategy. Evaluates risk financing methods and derivative solutions. The use of financial derivatives, including options, futures, swaps and other financial instruments for hedging price, interest rate, currency risks. Explores why all these strategies are not static as business and market conditions change. Prerequisite: FINC 340.

- FINC 446 International Corporate and Trade Finance 5**
Investigates techniques used to manage the financial activities of a corporation operating in an international environment. Addresses economic exposure of the firm to exchange rate changes, hedging techniques, capital budgeting, international capital markets, techniques of accessing blocked funds, foreign currency options, and other topics. Prerequisites: FINC 340.
- FINC 449 Senior Seminar 5**
Advanced topics to expose students to recent research in finance in a seminar setting. Topics covered will depend on instructor. Prerequisites: FINC 340, 342, 344.
- FINC 450 Enterprise Risk Management 5**
The economics of risk management from a strategic and integrated enterprise perspective, taking into account competitive, technological, regulatory and ethical considerations. Considers options such as loss prevention, loss control, risk transfer, and tools such as risk pools, insurance, self-insurance, captives, non-insurance contracts and reinsurance. Includes dealing with risk through strategic/business planning and mitigating the potential for loss through the decision/policy-making process. Prerequisite: FINC 440.
- FINC 491 Special Topics 2 to 5**
- FINC 495 Internship 1 to 5**
Open to senior finance majors with adviser's approval. Mandatory CR/F and will not satisfy major requirement.
- FINC 496 Independent Study 1 to 5**
- FINC 497 Directed Reading 1 to 5**
- FINC 498 Directed Research 1 to 5**
FINC 496, 497 and 498 are supervised individual exploration. Open to senior business majors with the approval of the student's adviser. Mandatory CR/F and will not satisfy a major requirement.
- INBU 491 Special Topics 2 to 5**
- INBU 495 Internship 1 to 5**
Open to senior international business majors with adviser's approval. Mandatory CR/F and will not satisfy major requirement.
- INBU 496 Independent Study 1 to 5**
- INBU 497 Directed Reading 1 to 5**
- INBU 498 Directed Research 1 to 5**
INBU 496, 497 and 498 are supervised individual work. Open to senior business majors with the approval of the student's adviser. Mandatory CR/F and will not satisfy a major requirement.
- MGMT 280 Communications for Business 5**
The purpose of this course is to develop a required skill level in written and oral business presentations so that applications of those skills can be expected in all applicable business core and major courses, including a university-specific common format for written executive summaries, for short oral presentations, and for research reports. Prerequisites: ENGL 110. Business majors only, except by permission. (fall, winter, spring)

- MGMT 320 Global Environment of Business 5**
Introduces the major factors (legal/political, economic, competitive, socio-cultural, technological, and natural) in the global environment and examine their individual and interrelated effects on organizational and managerial practices. Provides a framework for understanding organizational action within an increasingly global environment. Prerequisite: junior standing in the Albers School. (fall, winter, spring)
- MGMT 380 Principles of Management 5**
Introduces students to the management function of organizations, emphasizing leadership roles and teamwork. Course activities include discussion of readings, group exercises, cases, and a service project. Students learn basic concepts and tools for solving organizational problems. Prerequisite: junior standing in the Albers School. (fall, winter, spring)
- MGMT 382 Organizational Behavior 5**
Models of organizational behavior, alternative managerial behaviors, developing skills in dealing with people in areas of leadership, motivation, communication skills, conflict, and group processes. Prerequisite: MGMT 380.
- MGMT 383 Human Resource Management 5**
The role of the human resource department, social and legal environment, human resource planning, recruiting, selection, training, evaluation, compensation, career planning, employee relations, discipline, and organizational exit. Prerequisite: MGMT 380.
- MGMT 391 Special Topics 2 to 5**
- MGMT 471 Adventure-Based Leadership Seminar 5**
A leadership development program that utilizes both indoor and outdoor experiential activities to help students develop and practice the fundamentals of effective team building and leadership. Building trust, setting and evaluating goals, group problem solving, and effective interpersonal communications are among the attributes and skills addressed. Prerequisite: MGMT 380.
- MGMT 477 Managing Diversity 5**
Views dominant and minority work values, and reviews diversity programs. Assists students in discovering the personal and career roles they can play. Prerequisite: MGMT 380.
- MGMT 479 Small Business Management 5**
Procedures and problems in starting and operating a successful small business enterprise. Practice skills, service learning—learn by teaching, lead a project. Prerequisite: MGMT 380 and senior standing. (formerly MGMT 481)
- MGMT 485 Management of Change 5**
Review of forces and factors acting to create change in organizations, relationship between changes in organizations and human reactions, systemic change efforts, resistance to change, planned change models. Prerequisite: MGMT 380.
- MGMT 486 International Management 5**
Develops understanding of how various business principles, particularly those developed in the United States, apply in diverse international settings. Students will learn the role national culture plays in shaping organizational practices. Prerequisite: MGMT 380.

- MGMT 489 Business Policy and Strategy 5**
The senior capstone business course. Students integrate and apply knowledge, skills, and experience gained in the university and business course curricula. Critical thinking and analysis are engaged as students make decisions, set goals, and act on information from real business situations. The business situations reflect today's multicultural and international environment. Course methods may include lecture, discussion, case analyses, and individual or group projects. Prerequisites: all business foundation requirements and senior standing. (fall, winter, spring) (formerly MGMT 482)
- MGMT 491 Special Topics 2 to 5**
- MGMT 495 Internship 1 to 5**
Open to senior management majors with adviser's approval. Mandatory CR/F and will not satisfy a major requirement.
- MGMT 496 Independent Study 1 to 5**
- MGMT 497 Directed Reading 1 to 5**
- MGMT 498 Directed Research 1 to 5**
MGMT 496, 497, and 498 are supervised individual exploration. Open to senior business majors with the approval of the student's adviser. Mandatory CR/F and will not satisfy a major requirement.
- MKTG 350 Introduction to Marketing 5**
Survey of institutions and essential functions in the marketing system. Analysis of the marketing mix; product, place, promotion, and price strategies. Prerequisites: junior standing in the Albers School. (fall, winter, spring)
- MKTG 351 Buyer Behavior 5**
Application of behavioral sciences to explore consumer and organizational decision-making processes. Study the information processing of consumers, the effects of environmental and behavioral influences, and the nature of organizational structure effects on buying. Prerequisite: MKTG 350.
- MKTG 352 Marketing Communications 5**
Business firms' methods of communications to their markets and publics. Analysis of the promotional mix; personal selling, advertising, sales promotion and publicity. Promotion strategies. Prerequisite: MKTG 350.
- MKTG 353 Sales Management 5**
Deals with the personal selling function and its related administration and managerial activities. Covers the development of the selling function, sales management planning, recruiting, training, sales force organization, supervision and motivation, compensation and evaluation. Prerequisite: MKTG 350.
- MKTG 354 Introduction to Retailing Management 5**
Covers the major managerial, functional, institutional, and environmental dimensions of exchange transactions involving marketing organizations and ultimate consumers. Prerequisite: MKTG 350.
- MKTG 355 Services Marketing 5**
Introduces the student to the specific challenges of marketing a services firm. Basic conceptual distinctions between facilitating the exchanges of goods and services are the focus of the course. Applications are explored in a variety of industries, including banking, insurance, health care, hotels, restaurants, and education. Prerequisite: MKTG 350.

- MKTG 356 Transportation and Logistics 5**
 Introduces the basic concepts and techniques used to design transportation and logistics networks, including characteristics of common carriers, rate making, warehouse function and location, traffic management, and traffic law. Prerequisite: MKTG 350.
- MKTG 451 Marketing Research 5**
 Purpose, methods, and techniques of marketing research. Prerequisites: MKTG 350 and ECON 260.
- MKTG 452 Marketing Management 5**
 Case studies of corporate problems, decision making. Student participation in various roles of marketing. Organization planning, execution, and control of marketing problems. Prerequisites: MKTG 350, ACCT 231, and senior standing.
- MKTG 456 International Marketing 5**
 Analyzes issues important in marketing in multiple foreign environments. Addresses market segmentation, product design, promotional strategies, pricing strategies in the face of changing exchange rates, media choice, and the importance of cultural differences. Offered every other year. Prerequisite: MKTG 350.
- MKTG 491 Special Topics 2 to 5**
- MKTG 495 Internship 1 to 5**
 Open to senior marketing majors with adviser's approval. Mandatory CR/F and will not satisfy a major requirement.
- MKTG 496 Independent Study 1 to 5**
- MKTG 497 Directed Reading 1 to 5**
- MKTG 498 Directed Research 1 to 5**
 MKTG 496, 497, and 498 are supervised individual work. Open to senior business majors with the approval of the student's adviser. Mandatory CR/F and will not satisfy a major requirement.
- OPER 360 Manufacturing and Service Operations 5**
 An introduction to the operations function, including operations strategy, operations analysis, service delivery, quality improvement, inventory systems, facility layout, materials management, scheduling, aggregate planning, project management, and international operations. Students work in teams to visit a local factory or service operation and prepare reports relating their observations to course topics. Prerequisites: MATH 130, CSSE 103, junior standing in the Albers School. (fall, winter, spring)
- OPER 361 Operations Strategy 5**
 An in-depth examination of operation strategies for manufacturing and service and their essential links with other organizational functions, including marketing, finance, and engineering. Development, content, and implementation of operations strategies are discussed in the context of domestic and international cases. Student teams apply a theoretical framework to analyze operations strategies in local firms. Prerequisites: OPER 360; MKTG 350 recommended.

- OPER 362 Managing Processes 5**
Focuses on customer requirements and introduces tools available for improving manufacturing and service processes. Topics include process analysis tools, customer needs assessment, societal and ethical issues, customer interaction, quality function deployment, benchmarking, quality costs, statistical concepts in quality analysis and control, organization for quality, quality information systems, and motivational issues. Prerequisites: OPER 360, ECON 310; MKTG 350 recommended. (formerly Principles of Quality)
- OPER 363 Operations Planning and Control Systems 5**
Planning and control systems applied to the transformation processes in manufacturing and service settings. Topics include master planning, forecasting, inventory management, material requirements planning (MRP), capacity planning, production activity control, activity-based costing, just-in-time (JIT) systems, theory of constraints, demand management, distribution requirements, planning, automation, and implementation issues. Students are introduced to computer applications in most topical areas and cases are used to illustrate course concepts. Provides students with some of the background necessary for professional certification with the American Production and Inventory Control Society (APICS). Prerequisite: OPER 360, ECON 310.
- OPER 391 Special Topics 2 to 5**
- OPER 392 Special Topics 2 to 5**
- OPER 442 Manufacturing Processes 4**
Overview of the manufacturing processes, including casting, forming, machining and welding; physics governing processes, the associated process parameters and their influences. Special emphasis is placed on plastics processing. Three lectures and one laboratory or field trip per week. Listed jointly with MMEGR 342. Prerequisite: OPER 360.
- OPER 464 Supply Chain Management 5**
Introduces concepts and tools required to manage the network of suppliers producing goods and services which are subsequently converted by the buying firm. Topics include supplier evaluation/selection, development and certification; logistics; partnering; technology; modeling; just-in-time purchasing; managing risk; inventory management; international issues. Student teams will visit local firms to analyze supply chain management practices. Prerequisites: OPER 360.
- OPER 465 International Study Tour in Operations 5**
Students spend one to two weeks touring factories and meeting in faculty-led seminar groups in Latin America, Europe, or Asia. Seminar sessions prior to the tours will provide students with relevant backgrounds regarding politics, customs, culture, language, service delivery issues, and manufacturing practices related to the country to be visited. Students study the attributes of world-class operations, developing a benchmarking framework and observational skills in preparation for international company visits. At the end of the tour, each student will write a paper summarizing observations and relating them to previous course work in operations. Prerequisites: OPER 360 and faculty permission.
- OPER 466 Project Management 5**
Addresses the managerial concepts and technical tools required for evaluating, planning, managing, and controlling projects. Topics include strategic issues, project selection, risk analysis, work breakdown structures, PERT/CPM, resource management, conflict issues, project scheduling software, cost/schedule control systems, team-building, and matrix organization. Guest speakers from industry highlight implementation issues. Students apply course concepts to real and simulated projects. Prerequisite: OPER 360.

OPER 491 Special Topics in Operations 2 to 5

OPER 492 Special Topics in Operations 2 to 5

OPER 495 Operations Internship 1 to 5

Students exercise operations skills learned in the classroom by participating in the operations internship program. Internships are arranged with local businesses to match the interests and backgrounds of individual students. Functional areas may include purchasing, industrial engineering, operations analysis, space planning, quality management, materials, forecasting, production scheduling and others. Prerequisites: OPER 360 and at least one elective in the operations area.

OPER 496 Independent Study 1 to 5

OPER 497 Directed Reading 1 to 5

OPER 498 Directed Research 1 to 5

OPER 496, 497, and 498 are supervised individual exploration. Open to senior business majors with the approval of the student's adviser. Mandatory CR/F and will not satisfy a major requirement.

School of Education

Sue A. Schmitt, EdD, Dean

Dian S. Blom, EdD, Assistant Dean for Professional Development Programs

Ivan Hutton, PhD, Assistant Dean

Division of Teaching and Learning

Sandra Barker, PhD, Chair

Division of Leadership and Service

Carol Weaver, PhD, Chair

Objectives

The mission of the School of Education is to prepare ethical and reflective professionals for quality service in diverse communities. These professionals will contribute positively to the values, principles, and practices of their communities, workplaces, and professional associations.

The teacher preparation program is a graduate-level program leading to Washington teaching certificates in elementary education and in a variety of secondary school subjects. Also available are programs to prepare teachers in the areas of early developmentally disabled, learning disabled, early childhood, reading, and gifted education. See the *Graduate Bulletin of Information* or call the Education Office for details.

Through reciprocal agreements, School of Education graduates also qualify for certification in many other states.

Accreditation

The School of Education is fully accredited by the National Council for Accreditation of Teacher Education and approved by the Washington State Board of Education.

Organization

The graduate programs of the School of Education are organized into the following two divisions:

TEACHING AND LEARNING

Curriculum and Instruction

Educational Administration

School Psychology

Teacher Education

LEADERSHIP AND SERVICE

Adult Education and Training

Counseling

Educational Leadership

Student Development Administration

Teaching English to Speakers of Other Languages

Close cooperation exists among all departments, schools, and colleges of the university in working out programs of preparation for undergraduate students who desire a career in teaching.

Graduate Degrees and Programs Offered

See *Graduate Bulletin of Information*

Doctor of Education (EdD)

Educational Specialist (EdS)

Master of Arts in Education (MA)

Master of Education (MEd)

Master in Teaching (MIT)

Post-Master's Certificates

Teacher Education

Although there is no undergraduate degree in education, students interested in teaching should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for admission into the MIT program.

Master in Teaching Program

Seattle University offers an innovative Master in Teaching (MIT) degree for students interested in a teaching career. Students interested in a teaching career should contact the MIT program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic major as well as the specific requirements for MIT admission.

Elementary Certification (K-8)

To earn a certificate to teach kindergarten through eighth grade, the elementary certification candidate must have completed an undergraduate degree with a strong liberal arts foundation, including courses in language arts, science, math, and social science.

Secondary Certification (5-12)

To earn a certificate to teach fifth through twelfth grade, the secondary certification candidate must have completed an undergraduate or graduate degree in an academic major represented in the table below that corresponds to their area of desired certification (e.g., someone wanting to teach biology must have a bachelor's or master's degree in biology). Candidates with a degree in a closely related area (e.g., engineering or environmental studies) must call the master in teaching secretary at (206) 296-5759 to arrange an appointment with the field experiences coordinator to evaluate transcripts. Endorsements are subject to change. Please check with your education adviser for current requirements.

The following majors are suitable for 5-12 certification through Seattle University.

Endorsement in Content Subject Area	Grade Level(s)	Available After 8/31/2000 Primary 60 Qtr Credits	Available After 8/31/2000 Primary 45 Qtr Credits	Available After 8/31/2000 Supporting 24 Qtr Credits
Bilingual Education	Pre-12	no	no	yes
Biology	5-12	no	yes	yes
Chemistry	5-12	no	yes	yes
Designated Arts:				
Choral	Pre-12	no	yes	yes
Dance	Pre-12	no	no	yes
Drama	Pre-12	no	no	yes
General	Pre-12	no	yes	yes
Instrumental	Pre-12	no	yes	yes
Visual Arts	Pre-12	no	yes	yes
Designated World Lang.	Pre-12	no	yes	yes
Early Childhood Educ	Pre-3	no	yes	yes
Early Childhood Spec Ed	Pre-3	no	yes	no
Earth Science	5-12	no	yes	yes
Elementary Education	K-8	no	yes	no
English	5-12	no	yes	yes
English as Second Lang.	Pre-12	no	no	yes
English/Language Arts	5-12	yes	no	no
Health/Fitness	Pre-12	no	yes	yes
History	5-12	no	yes	yes
Library Media	Pre-12	no	yes	yes
Mathematics	5-12	no	yes	yes
Middle Level Education	4-9	no	yes	no
Physics	5-12	no	yes	yes
Reading	Pre-12	no	yes	yes
Science	5-12	yes	no	no
Social Studies	5-12	yes	no	no
Special Education	Pre-12	no	yes	no

No. of Endorsements Required:	Before 9/1/2000	After 8/31/2000
	Two for the Continuing Certificate	Only one primary endorsement is required for the professional teaching certificate and the continuing certificate

Note: Require Vocational Endorsement: Agriculture, Business Educ, Family/Consumer Sci, Marketing Ed, Tech Educ

Elementary and Secondary Continuing Certification

For continuing certification through 8/31/2000, teachers must have at least two teaching area endorsements. Those endorsements may be in elementary education or in any of the majors suitable for secondary certification or in any of the majors listed above for additional endorsements. Beginning 9/01/2000, only one primary endorsement will be required for the professional teaching certificate and the continuing certificate.

Education Courses

These courses can be used as electives in a student's program with a School of Education adviser's approval.

EDUC 300 Schooling in American Society 3

A course for undergraduates who are considering teaching as a profession, as well as other undergraduates who are interested in learning about schooling in America. The course will examine the purposes of schools in American society. Issues to be explored include a look at the original purposes of schools in this country, the current state of American education, the issues facing schools today, and a consideration of the schools of the future. In addition, the role of the teacher in each of these settings will be examined. Visits to three schools will be required as part of this course.

EDUC 380 Preparation for Leadership 2

Designed for undergraduate students who wish to develop and sharpen their understanding of leadership and leadership skills.

EDUC 412 Math for K-8 Teachers 3

A participation-oriented, hands-on review of the mathematical content needed to teach elementary school mathematics in a manner consistent with national reform standards in mathematics education. The focus is on the acquisition of conceptual understanding in preparation for teaching.

Matteo Ricci College

Arthur Fisher, PhD, Dean

Jodi Kelly, MRE, Associate Dean

About Matteo Ricci College

Matteo Ricci College at Seattle University is the three-year university phase of an innovative program that coordinates and integrates high school and university level studies, enabling students to complete their high school and university education in six or seven years, rather than the traditional eight.

The Matteo Ricci College (MRC) program was developed jointly by Seattle Preparatory School and Seattle University. That collaboration led, in 1975, to Seattle Prep's initial offering of the three-year high school phase and, in 1977, to Seattle University's initial offering of the three-year university phase. Access to MRC at Seattle University was restricted from the inception of the program through the 1988-89 academic year to students who had completed the three-year curriculum at Seattle Prep.

In recent years, collaboration between Seattle University and six of the eight local Catholic high schools has led to academic partnerships, termed the Matteo Ricci College Consortium, that open the college to graduates of those schools. The focus of these partnerships is a bridge curriculum that is designed jointly by high school and university faculty and taught by the high school faculty on the high school campus. That curriculum can generate five or 10 Seattle University credits, which may be applied toward MRC degree program requirements or other Seattle University program requirements, or be transferred to other universities.

Objectives

Matteo Ricci College seeks to develop students who shape their personal and social futures through responsible choices. The objectives of the program are to continue the harmonious development of students' cognitive, affective, and valuative potential; bring students to a reflective consciousness of how they learn; and foster an inquiring, caring community of learners and teachers. Focusing on students' intellectual, aesthetic, emotional, ethical, and religious life, the curriculum is designed to sharpen and test generalizable learning skills. Students exercise and develop verbal and non-verbal communication skills; develop specific skills, both in a broad range of traditional disciplines and in an area of specialization; and confront, through interdisciplinary investigation, problems, clarifying themes, and a variety of values. Students are aided in undergoing prescriptive self-assessment.

Admission Requirements

Beginning with the fall term of the 1989-90 academic year, access to MRC/SU became available to the following students:

- Seattle Prep students who have successfully completed the appropriate three-year curriculum there and are recommended for advancement to MRC/SU.
- Graduates of Seattle Prep who follow the three-year curriculum there with successful completion of a fourth year of study on the Prep campus.
- Graduates of Eastside Catholic High School, Forest Ridge High School, Holy Cross High School, John F. Kennedy Memorial High School, and O'Dea High School who: 1. meet the university's entrance requirements; 2. earn a grade of C (2.0) or higher in the jointly developed "bridge curriculum" offered at the high school campuses that generates Seattle University credits; and 3. receive recommendations from teachers involved in the bridge curriculum and from the high school administration.

Degree Offered

Bachelor of Arts in Humanities

In addition, a second baccalaureate degree in a variety of liberal arts and professional areas can usually be earned in an additional three quarters of study.

General Program Requirements

(Policy 90-1)

MRC students are expected to make normal progress toward completing the required courses in sequence. They must maintain a cumulative academic grade point average of 2.0 or higher during the first year of the program and 2.25 during the remainder of the program. Students failing to meet these expectations will be placed on probation for two quarters, and thereafter are subject to dismissal from the MRC program.

The MRC peer advisers serve as the principal advisers to all MRC students on academically related matters. Consequently, a student in the college may not register for any Seattle University course, either in the summer session or during the regular academic year, without first consulting and receiving the written permission of a peer adviser. MRC students are required to seek additional advising from faculty with disciplinary expertise in the area of specialized studies selected (see Area of Concentration below).

Bachelor of Arts in Humanities Major in Humanities

In order to earn the bachelor of arts with a major in humanities through Matteo Ricci College, students must complete 135 quarter credits, including the following:

HUMT courses	60
Fine Arts electives	4 to 5
Interdisciplinary Science	5
Social Science Inquiry (ISSS 120)	5

Areas of Concentration (choose one):

Concentration in a single discipline	40
Concentration in a pre-professional area (e.g., pre-medical, pre-dental, pre-law, business, engineering, etc.)	50
Concentration in a coordinated split discipline	45 (20/25)

Electives (approved by MRC adviser) remainder

Typical Schedule

Year 4

HUMT 100 series courses	30
Fine Arts courses	4-5
Social Science Inquiry (ISSS 120)	5
Area of concentration and approved courses	5-6

Year 5

HUMT 300 series courses	15
Science and Technology course	5
Area of concentration and approved courses	25

Year 6

HUMT 400 series	15
Area of concentration and approved courses	30

Please Note: 1. Only courses graded C- (1.7) or higher will fulfill the HUMT requirements scheduled for the HUMT 150 and 180 series. Only those graded C (2.0) or higher will be accepted in fulfillment of all other humanities courses. 2. MRC students who have successfully completed an area of concentration may apply the credits earned toward a second baccalaureate degree in certain major fields of study, subject to the approval of the appropriate school, and the university regulation of 45 minimum additional credits for a second baccalaureate degree. 3. The curriculum for students entering MRC/SU from schools other than Seattle Prep will vary only slightly from the requirements listed above, depending on the content of the respective school's bridge curriculum. Students entering MRC/SU from the consortium schools must earn 135 credits beyond what was earned in the bridge curriculum on the high school campus.

Matteo Ricci College Humanities Courses

HUMT 150 Composition: Language and Thought 5
Study and practice in informal logic and argumentation, with emphasis upon the composition of clear, persuasive writing.

HUMT 151 Composition: Language and the Arts 5
Interdisciplinary study of artistic composition in a variety of art forms, with emphasis upon, and practice in, literary composition.

HUMT 156 Quantitative Reasoning 5
Mathematics as a window to the world and as a practical art. Introduction to the role of quantitative reasoning in the study of social problems and in decision-making; case studies that feature exploratory data analysis, rates of change, and statistical concepts and methods. Emphasis on the formulation of hypotheses, translation of quantitative patterns into argument, and construction and use of mathematical models. Prerequisite: one year each of high school algebra and geometry.

HUMT 180 Socio-Cultural Transformations I 5

HUMT 181 Socio-Cultural Transformations II 5

HUMT 182 Socio-Cultural Transformations III 5

A three-quarter, interdisciplinary study of the evolution of major systems of meaning and value in Western civilization and the social expressions of these systems; emphasis on analysis of social and cultural phenomena and on interpretation of the personal and communal significance of cultural change in the past, present, and future.

HUMT 291 Special Topics 1 to 5

HUMT 292 Special Topics 1 to 5

HUMT 293 Special Topics 1 to 5

HUMT 301 Perspectives on the Person I 5

HUMT 302 Perspectives on the Person II 5

Reflective and critical examination of the structures of experience which define and shape human reality from philosophical, theological, psychological, and literary perspectives; emphasis on understanding of self and on appropriation of a religiously grounded sense of care and responsibility at both individual and social levels.

HUMT 380 Cultural Interface 5

Interdisciplinary study of the elements of human behavior that define culture and the processes of interaction between European culture and cultures of Asia, Africa, and Latin America. (formerly HUMT 280)

HUMT 400 MRC Seminar 5**HUMT 401 MRC Seminar 5**

Seminars that engage students in social and cultural issues of the contemporary world, with special attention to local expressions of these issues. Emphasis on relationships among empirical data and the search for the normative and the ideal; attention to acquiring the additional knowledge, skills, and sensibilities required for successful completion of a capstone project in the following seminar, HUMT 402.

HUMT 402 Capstone Seminar 5

A project-based seminar that integrates and culminates the MRC experience. Content features: empirical research on a social problem of choice; linking of empirical findings to public policy contexts; ethical critique and/or defense of decisions or positions taken. Pedagogical format: student teams instructed and guided by a team of faculty mentors.

School of Nursing

Mary K. Walker, PhD, RN, FAAN, Dean

Janet M. Claypool, MN, RNC, Associate Dean

Objectives

The aim of the School of Nursing is to provide educational preparation for professional practice. There are four major goals for the baccalaureate nursing program:

- Provide educational experiences to develop knowledge, skills, and values essential to the profession of nursing.
- Provide opportunities for students to realize their potentials as persons and as professionals.
- Prepare students in the Jesuit tradition of service to others for meeting health needs in society.
- Provide the foundation for graduate study in nursing.

Undergraduate Degree Offered

Bachelor of Science in Nursing

To keep the program current, changes may be made in the undergraduate curriculum. These changes will not increase the total number of credits required for degree completion. When a curriculum change occurs, students must complete the enrolled program of study within one(1) year of the last regularly scheduled course in the discontinued curriculum OR apply for readmission to the new curriculum.

Graduate Degree Offered

See *Graduate Bulletin of Information*

Master of Science in Nursing

Accreditation

National League for Nursing Accrediting Commission

Approval

Washington State Nursing Care Quality Assurance Commission

Commission on Collegiate Nursing Education (Preliminary)

For additional information on Seattle University's nursing programs, please contact the School of Nursing. Prospective BSN students who desire further information about nursing programs in general, such as tuition, fees, and length of program, may also contact the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, NY 10014, (800) 669-9695.

Programs of Study

The School of Nursing offers an undergraduate program in nursing for basic students with no previous education in nursing and for registered nurse students seeking the bachelor of science in nursing degree. It also offers a master of science degree program. See the *Graduate Bulletin of Information* for details.

Admission Requirements

All entering students from high schools or accredited institutions of higher education who wish to complete requirements for the bachelor of science degree in nursing must meet university entrance requirements described in the admissions section of this bulletin. A cumulative and major prerequisite grade point average of 2.75 or above from another college or university is required for transfer students seeking admission into the School of Nursing. The chemistry requirement is met by completion of 1 unit (one year) of high school chemistry or one quarter of college chemistry.

General Program Requirements

Students must obtain a cumulative and major program/prerequisite GPA of 2.75 to enter the nursing sequence of study. Specific requirements for progression are detailed in Policy 75-3, which is included in the School of Nursing Student Handbook.

Students must meet the School of Nursing/Clinical Agency requirements for annual health screening, current C.P.R. certification, immunization, medical insurance coverage, and other state and federal requirements. Students are responsible for these expenses as well as uniforms, equipment, and transportation costs to and from clinical agencies/sites. Students are referred to the School of Nursing Student Handbook for a more detailed overview of requirements and expectations.

Professional liability insurance is required for registered nurse students through the duration of all clinical experiences. Fees are assessed for all laboratory and clinical courses (see costs section of this bulletin). Students are required to participate in program and comprehensive testing/evaluations. Fees associated with these processes are the responsibility of the students. Fees are also required to apply for RN licensure. Details regarding these costs are found in the School of Nursing Student Handbook.

Clinical Experiences

Clinical experience is provided through cooperating health care agencies, which include the Bessie Burton Sullivan Skilled Nursing Residence, Children's Hospital and Regional Medical Center, C.P.C. Fairfax, Evergreen Hospital Medical Center, Group Health Cooperative Hospital and Clinics, Harborview Medical Center, Northwest Hospital, Overlake Hospital Medical Center, Pacmed Clinics, Providence Seattle Medical Center, Seattle King County Health Department, Seattle Public Schools, Swedish Medical Center, Valley Medical Center, Providence Mount St. Vincent, VA Puget Sound Health Care System, Virginia Mason Hospital, West Seattle Psychiatric Hospital, Yesler Terrace, Asian Counseling and Referral Services, Home Health Care of Washington, Martin Luther King Day Home Center, Visiting Nurse Services, and other selected health care agencies.

Bachelor of Science in Nursing For Registered Nurse Students

Registered nurse (RN-B) students must complete degree requirements as outlined below for transfer students and must also complete NURS 310 and 385. A minimum of 180 quarter credits are required to earn the baccalaureate degree in nursing. Transfer credits from accredited institutions of higher education may be accepted towards the university core curriculum and major program prerequisites. Some of the nursing credits may be earned through validation. (see Policy #85-1).

A minimum of 55 credits must be completed at Seattle University in upper division core and nursing courses with a cumulative grade point average of 2.5. Required nursing courses must be graded C(2.0) or better.

Registered nurse applicants must have a cumulative and major prerequisite grade point average of 2.75 or above, have graduated from a program accredited by the National League for Nursing Accrediting Commission (NLNAC), and have current nursing licensure in the state of Washington.

Bachelor of Science in Nursing For Entering Freshmen or Transfer Students

To earn the bachelor of science in nursing, students must complete a minimum of 180 quarter credits. The number of contact hours for lecture, lab, and clinical courses is consistent with university policy on course scheduling. A 2.5 cumulative grade point average is required for degree completion. All courses required for the BSN degree must be graded C (2.0) or better. Program requirements include:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
MATH	107 or 110 or above*	5
Lab Science (BIOL 220 required)*		5
PHIL 220	Philosophy of the Human Person	5
Social Science I (PSYC 120 required)*		5
Social Science II (not psychology)		5
FINR120	or approved fine arts alternate	5
Theology and Religious Studies Phase II (200-299)		5
PHIL 352	Health Care Ethics	5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary course		3
Senior Synthesis satisfied by NURS 490		

*Also major/program requirement; C (2.0) minimum grade allowed.

See detailed university core curriculum in this bulletin

II. Major Requirements

One hundred-nine credits, including:

BIOL 200	Anatomy and Physiology I.....	5
BIOL 210	Anatomy and Physiology II.....	5
PSYC 322	Psychology of Growth and Development (or approved alternate)	5
NURS 202	Statistics for Health Research (or approved alternate)	5
NURS 203	Contemporary Nursing	2
NURS 204	Pathophysiology	5
NURS 207	Introduction to Pharmacology	3

Nursing upper division credits:

NURS 306	Foundations of Professional Nursing	5
NURS 308	Health Assessment and Intervention I	5
NURS 309	Promoting Wellness in Families	10
NURS 311	Promoting Wellness During Altered Health I	10
NURS 324	Nursing Research and Epidemiological Methods	5
NURS 326	Health Assessment and Intervention II	5
NURS 401	Promoting Wellness During Altered Health II	10
NURS 402	Leadership and Management in Health Care	5
NURS 403	Health Care in Communities	10
NURS 416	Contemporary Issues with Vulnerable Populations	2
NURS 425	Transition to Professional Nursing Practice	9
NURS 490	Senior Synthesis	3

III. Electives

Unspecified Elective	3
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Please Note: Prospective students are encouraged to work with a designated academic adviser to develop a plan for sequence of study to meet program requirements.

Nursing Courses

The following courses will be taught as scheduled during AY 2000-01 for students completing the senior year nursing curriculum by June 2001. Course descriptions are found in the 1998-99 Bulletin of Information: NURS 328-9, 338-9, 348-9, 404, 410-11, 412-13, 423.

NURS 202 Statistics for Health Research 5

A conceptual approach to statistics, including hypothesis testing, statistical significance, and statistical power. Common descriptive and inferential statistical tests and how to use them. Application to nursing and health care research. Theory (4 credits), lab (1 credit). Prerequisite: MATH 107 or above. Permission required for non-majors. (fall, spring)

NURS 203 Contemporary Nursing 2

Introduction to professional nursing in the context of contemporary health care systems. Students will engage in skills essential to nursing: critical reading, critical thinking, reflection, and communication. Prerequisites: ENGL 110, PHIL 110. Permission required for non-majors. (fall, spring)

- NURS 204 Pathophysiology 5**
A conceptual approach to alterations in structure and function resulting from the action of stressors on the human body. Course will review the cellular and molecular basis of these alterations, such as inflammation, immunity, and the genetic basis of disease. These basic pathologic mechanisms will also be applied to body systems. Prerequisites: BIOL 200, 210; BIOL 220 recommended. Open to non-majors. (fall, spring)
- NURS 207 Introduction to Pharmacology 3**
Examination of pharmacological principles and drug classes. Self-management strategies and care provider considerations. Integration of legal, ethical, and other social factors. Prerequisite: Math 107 or above and nursing major. Pre- or corequisite: NURS 204. (fall, spring)
- NURS 306 Foundations of Professional Nursing 5**
Examination of nursing history, nursing theory, and professional practice using systems theory as a framework. Introduction to concepts of health, health promotion and protection in the context of health care delivery systems. Development of communication, collaboration, and group process skills for professional relationships. Theory (4 credits), lab (1 credit). Prerequisite: NURS 203; majors only. (fall, winter)
- NURS 308 Health Assessment and Intervention I 5**
Basic techniques of screening assessments and health promotion interventions of individuals, families and populations across the lifespan. Theory (2 credits), Lab/Clinical (3 credits). Prerequisites: PSYC 322, BIOL 220, and all required NURS courses numbered 202 through 207. Pre- or corequisite: NURS 306. (fall, winter)
- NURS 309 Promoting Wellness in Families 10**
Family structure, function and dynamics. Theory will focus on nursing strategies to promote health and reduce the risk of illness and injury in families across the generations. Clinical experiences will be in a variety of community-based settings. Theory (5 credits), clinical (5 credits). Prerequisites: PSYC 322, NURS 308. Pre- or corequisite: NURS 324. (winter, spring)
- NURS 310 Current Perspectives in Professional Nursing 5**
Transition course for RNs only. Professional nursing in a social context; characteristics of professional practice; teaching-learning principles; communication skills; health promotion. Field assignments arranged. (fall)
- NURS 311 Promoting Wellness During Altered Health I 10**
Examination of factors contributing to and resulting in common, acute and chronic alterations in health across the lifespan. Focus is on illness management, risk reduction and disease prevention in individuals, families and populations in a variety of health care settings. Theory (5 credits), clinical (5 credits). Prerequisites: All required NURS courses numbered 202 through 309 plus 326. (spring, fall)
- NURS 324 Nursing Research and Epidemiological Methods 5**
Introduction to research as a problem-solving process fundamental to nursing practice. Emphasis on developing knowledge in epidemiological, quantitative, and qualitative methods. Application of computer skills to identify and search health care databases. Prerequisite: NURS 202. Pre- or corequisite: NURS 306. (fall, winter)

NURS 326 Health Assessment and Intervention II 5

Focus on health assessment with altered states of health, including data gathering, analysis, and planning care for individuals, families and populations across the lifespan. Nursing interventions applied to clients across health states. Theory (2 credits), lab/clinical (3 credits). Prerequisite: NURS 308. Pre- or corequisite: NURS 324. (winter, spring)

NURS 372 Issues in Women's Health: A Wellness Perspective 3 or 5

Elective course (not a major requirement). Life style and influences on health outcomes. Health promotion and protection practices. Special emphasis on nutrition as it relates to wellness. Examination of health issues and choices for women and families. Junior standing or permission of instructor. Open to non-majors and applicable to a women's studies minor. (winter or spring)

NURS 385 Clinical Decision Making 5

Seminar for RNs only. Analysis of clinical decision making and examination of selected professional issues with clients and families. Application of the nursing process in a variety of practice settings. Prerequisite: PSYC 322, NURS 310, and permission. (winter)

NURS 391 Special Topics 1 to 5**NURS 392 Special Topics 1 to 5****NURS 393 Special Topics 1 to 5****NURS 396 Directed Study 2 to 5****NURS 401 Promoting Wellness During Altered Health II 10**

Continued focus on illness management, and nursing therapies to promote wellness during altered health states across the lifespan. Emphasis on managing complex care. Continued refinement of direct care skills in a variety of health care settings. Theory (5 credits), clinical (5 credits). Prerequisites: NURS 311, 326. Pre- or corequisite: NURS 402. (fall, winter)

NURS 402 Leadership and Management in Health Care 5

Organizational theories, leadership and management principles, and economic, political and legal factors as they relate to the delivery of health services. Prerequisites: All required NURS courses numbered 202 through 326. (fall, winter)

NURS 403 Health Care in Communities 10

Application of systems theory, nursing science, public health science and community health theories to a variety of populations and communities. The major nursing focus will be problem solving to promote healthy communities. Students will collaborate with other disciplines and community members on health policy issues. Theory (5 credits), clinical (5 credits). Prerequisites: All required NURS courses numbered 202 through 402. (winter, spring)

NURS 416 Contemporary Issues with Vulnerable Populations 2

Incorporate study of clients from previous and concurrent nursing courses to critically examine the concept of vulnerability and associated risk factors. Ethics, advocacy and empowerment will frame evaluation of intervention strategies. Prerequisites: All required NURS courses numbered 202 through 401. (winter, spring)

School of Science and Engineering

George M. Simmons, PhD, Dean

Patricia D. Daniels, PhD, PE, Associate Dean

Objectives

Rooted in the Jesuit tradition of liberal education, the School of Science and Engineering at Seattle University seeks to provide dynamic, integrated, and challenging academic programs in science, engineering, and health. The school is dedicated to preparing students for responsible roles in their chosen professions and to advancing the educational qualifications of practicing professionals. The school seeks to foster among all students an understanding of scientific inquiry and a critical appreciation of technological change, and to inspire them to lifelong intellectual, professional, and human growth.

Degrees Offered

- ✓ Bachelor of Arts
 - with a major in chemistry, computer science, mathematics, or physics
- ✓ Bachelor of Science
 - with a major in mathematics
- ✓ Bachelor of Science in Biochemistry
- ✓ Bachelor of Science in Biology
- ✓ Bachelor of Science in Chemistry
- ✓ Bachelor of Science in Civil Engineering
- ✓ Bachelor of Science in Civil Engineering with a specialization in environmental engineering
- ✓ Bachelor of Science in Computer Science
- ✓ Bachelor of Science in Computer Science with a specialization in business
- ✓ Bachelor of Science in Computer Science with a specialization in mathematics
- ✓ Bachelor of Science in Diagnostic Ultrasound
- ✓ Bachelor of Science in Electrical Engineering
- ✓ Bachelor of Science in Electrical Engineering with a specialization in Computer Engineering
- ✓ Bachelor of Science in General Science
- ✓ Bachelor of Science in General Science with a specialization in environmental science
- ✓ Bachelor of Science in General Science with a pre-professional specialization
- ✓ Bachelor of Science in Mathematics
- ✓ Bachelor of Science in Mathematics with a specialization in applied math
- ✓ Bachelor of Science in Mathematics with a specialization in pure math
- ✓ Bachelor of Science in Mechanical Engineering
- ✓ Bachelor of Science in Mechanical Engineering with a specialization in manufacturing engineering
- ✓ Bachelor of Science in Medical Technology
- ✓ Bachelor of Science in Physics

Master of Software Engineering –See *Graduate Bulletin of Information*

Students interested in other scientific, technical, and health-related careers, such as medicine or dentistry, may pursue a degree within a specific discipline and use elective courses to suit their needs, or they may tailor their complete curriculum within the general science degree.

Accreditation

Individual programs within the school are accredited by the following professional bodies:

Accreditation Board for Engineering and Technology (civil engineering, electrical engineering, and mechanical engineering)

Commission on Accreditation of Allied Health Education Programs (diagnostic ultrasound)

In addition the Chemistry Department is approved by the American Chemical Society to grant ACS certified B.S. degrees in chemistry and biochemistry. See departmental listing for requirements.

Admission Requirements

Freshmen applicants for admission to the School of Science and Engineering must have completed at least three years of high school mathematics, preferably including trigonometry, and at least two years of laboratory science for all majors except mathematics and computer science.

Transfer applicants will be considered when their overall college grade point average is at least 2.5 on a 4.0 scale and when their cumulative grade point average in all engineering, mathematics, or science courses is also at least 2.50. A history of withdrawals, incompletes, and repeated courses lessens the chances for admission. To be accepted for transfer credit, required engineering, mathematics, or science courses must be graded C (2.0) or above. No technology courses will be accepted as transfer credit.

School of Science and Engineering Requirements

Students seeking the bachelor's degree in the School of Science and Engineering must complete a minimum of 180 credits, including the university core curriculum requirements. A bachelor of science in civil engineering or in civil engineering with a major in environmental engineering requires 192 credits. For all of the engineering programs, for both degrees in computer science, and for the bachelor of science in mathematics, the student's cumulative grade point average for graduation must be at least 2.50. In addition, for these programs, the minimum Seattle University grade point average for all courses applied to major and major department requirements is 2.50. A cumulative and major/department average of 2.30 is required of graduating students in diagnostic ultrasound.

The core requirements have been modified for several of the degree programs, as described in the individual departmental sections of this bulletin, but in no case may a student have fewer than 45 credits in the combination of history, humanities, and social sciences. Students also must complete the specific departmental requirements for their particular degree.

A maximum of 30 credits taken by an undergraduate non-matriculated student may be applied toward a baccalaureate degree in the School of Science and Engineering. For post-baccalaureate students taking courses in preparation for graduate health professional programs, any pre-professional courses taken in non-matriculated status may be applied toward a second bachelors degree in the School of Science and Engineering.

No course may be taken without the indicated prerequisites. Only the dean may waive this policy.

Biology

Daniel Matlock, PhD, Chair

Objectives

Biology is the study of life at all levels, from the molecular to the global. A vital part of liberal education, knowledge of biology provides insights into the nature of the human body, social structure and behavior, as well as the ecological interrelationships, genetics and evolution, physiological functions, cellular and molecular processes of all living things.

Emphasizing laboratory and field work, the bachelor of science in biology is designed to prepare students for careers in the life sciences, for graduate work in basic and applied research and for professional careers in medicine, dentistry, veterinary medicine, and teaching. Students interested in premedical, pre dental, or preveterinary medicine should also consult the Preprofessional section of this bulletin.

Degree Offered

Bachelor of Science in Biology

Major Offered

Biology

Minor Offered

Biology

Bachelor of Science in Biology

In order to earn the bachelor of science in biology degree, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies I (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies II (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis (satisfied by BIOL 487 and 488)		

See detailed core curriculum information in this bulletin

II. Major Requirements

Fifty-seven credits in biology, including:

BIOL 165	General Biology I.....	5
BIOL 166	General Biology II.....	5
BIOL 167	General Biology III.....	5
BIOL 240	Genetics.....	5
BIOL 470	General Ecology.....	5
BIOL 485	Cell Physiology.....	5
BIOL	Electives (not BIOL 101, 200, 210, or 220).....	10
Senior Synthesis:		
BIOL 487	Independent Experience.....	2 to 4
BIOL 488	Seminar.....	1
Choose one of the following two courses:..... 5		
BIOL 235	Invertebrate Zoology	
BIOL 252	Taxonomy of Flowering Plants	
Choose one of the following four courses:..... 4 or 5		
BIOL 310	Comparative Embryology.....	5
BIOL 325	Comparative Anatomy of the Vertebrates.....	5
BIOL 330	Comparative Vertebrate Histology.....	5
BIOL 361	Ultrastructure.....	4
Choose one of the following two courses:..... 5		
BIOL 385	Plant Physiology	
BIOL 388	Animal Physiology	

Please Note: One course of plant science beyond the 165-167 series is required.**III. Other Major Department Requirements**

CHEM 121	General Chemistry I.....	4
CHEM 131	General Chemistry Lab I.....	1
CHEM 122	General Chemistry II.....	4
CHEM 132	General Chemistry Lab II.....	1
CHEM 123	General Chemistry III.....	4
CHEM 133	General Chemistry Lab III.....	1
Choose organic chemistry sequence a. or b.:..... 15 or 17		
a. CHEM 335 Organic Chemistry I (3)		
CHEM 345 Organic Chemistry Lab I (2)		
CHEM 336 Organic Chemistry II (3)		
CHEM 346 Organic Chemistry Lab II (2)		
CHEM 337 Organic Chemistry III (4)		
CHEM 347 Organic Chemistry Lab III (2)		
b. CHEM 231 Fundamental Organic Chemistry I (4)		
CHEM 232 Fundamental Organic Chemistry II (4)		
CHEM 241 Fundamental Organic Chemistry Lab I (2)		
CHEM 242 Fundamental Organic Chemistry I Lab II (2)		
CHEM 319 Quantitative Analysis (5)		
Choose group a. or b.:..... 10		
a. MATH 131 Calculus for Life Sciences		
PSYC 201 Statistics I		

- b. MATH 134 Calculus and Analytic Geometry I
- MATH 135 Calculus and Analytic Geometry II

Choose physics series a. or b.:..... 15

- a. PHYS 105 Mechanics and Sound
- PHYS 106 Electricity, Magnetism, and Thermodynamics
- PHYS 107 Survey of Modern Physics
- b. PHYS 200 Mechanics
- PHYS 201 Electricity and Magnetism
- PHYS 202 Waves, Optics, and Thermodynamics

Minor in Biology

In order to earn a minor in biology, students must complete 30 credits in biology, including:

BIOL 165	General Biology I	5
BIOL 166	General Biology II	5
BIOL 167	General Biology III	5
BIOL	Electives	15
	(10 credits numbered 200 or above)	

See policy for minors on p. 46.

Teacher Education

The teacher preparation program is a graduate-level program only. Students planning to teach in elementary or secondary schools should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Biology Courses

BIOL 101	Principles of Biology	5
Important areas of biology, beginning at the cellular level and culminating with a consideration of interactions and changes in natural populations. Four lecture and three laboratory hours per week. Credits not applicable to biology major. (spring)		
BIOL 165	General Biology I	5
BIOL 166	General Biology II	5
BIOL 167	General Biology III	5
Survey of the biological world, concepts and principles. I) cell biology, metabolism, respiration, photosynthesis, genetics. II) evolution, diversity, and comparisons of groups of living organisms. III) development and differentiation; comparative functions of tissues and organ systems; ecology. Four lecture and three laboratory hours per week. Prerequisite: high school algebra and chemistry. BIOL 165 prerequisite to BIOL 166 and 167. (I-fall, winter; II-winter; III-spring)		
BIOL 200	Anatomy and Physiology I	5
Major structural and functional systems of the human body. Cells, tissue, bone, muscle, and nervous system. Laboratory emphasis on microscopic and gross anatomy. Credits not applicable for biology major. Four lecture and three laboratory hours per week.		

- BIOL 210 Anatomy and Physiology II 5**
Major structural and functional systems of the human body. Digestive, circulatory, respiratory, endocrine, urinary, and reproductive systems. Physiological interactions among systems. Laboratory emphasis on physiology. Credits not applicable for biology major. Four lecture and three laboratory hours per week. Prerequisite: BIOL 200. (winter)
- BIOL 220 Microbiology 5**
Introduction to microbiology, emphasizing health-related aspects. Four lecture and three laboratory hours per week. Credits not applicable for biology major. Prerequisite: BIOL 210. (winter)
- BIOL 235 Invertebrate Zoology 5**
Survey of invertebrate phyla including their anatomy, morphology, taxonomy, and ecology. Four lecture and three hours laboratory per week. One weekend field trip. Prerequisites: BIOL 165, 166, 167. (spring, even years)
- BIOL 240 Genetics 5**
Introduction to the principles of inheritance with an emphasis on the transmission of genetic information from one generation to the next. Topics include Mendelian and non-Mendelian inheritance, dominance, linkage, gene interactions, sex determination and sex linkage, polygenic inheritance, human medical genetics, and maternal effects. Five lectures per week. Prerequisites: BIOL 165, 166, and 167, or permission of instructor. (winter)
- BIOL 252 Taxonomy of Flowering Plants 5**
Native flora as an introduction to taxonomy, involving the principal orders and families of flowering plants. Three lecture and four laboratory hours per week. Prerequisites: BIOL 165, 166. (spring, odd years)
- BIOL 275 Marine Biology 5**
Study of the marine environment and the animals and plants inhabiting it. Four lecture and three laboratory hours per week and one weekend field trip. Prerequisites: BIOL 165, 166, 167; BIOL 235 recommended. (spring, odd years)
- BIOL 291 Special Topics 1 to 5**
- BIOL 292 Special Topics 1 to 5**
- BIOL 293 Special Topics 1 to 5**
- BIOL 296 Directed Study 1 to 5**
- BIOL 300 Microbiology 5**
Basic biology of micro-organisms, including morphology, physiology, genetics, and ecology, with some aspects of applied and medical microbiology. Four lecture and three laboratory hours per week. Prerequisite: BIOL 165, 166, 167; CHEM 123/133. (fall)
- BIOL 310 Comparative Embryology 5**
Early embryo development with consideration of gametogenesis, fertilization, gastrulation, cell differentiation, and organogenesis. Four lecture and three laboratory hours per week. Prerequisites: BIOL 165, 166, 167. (spring)

- BIOL 325 Comparative Anatomy of the Vertebrates 5**
Comparative study of the structures of the integumentary, muscular, skeletal, digestive, respiratory, excretory, reproductive, circulatory, and nervous systems of selected vertebrates with emphasis on evolutionary relationships between organisms. Prerequisites: BIOL 165, 166, 167. (winter)
- BIOL 330 Comparative Vertebrate Histology 5**
Study of the fundamental body tissues. Three lecture and four laboratory hours per week. Recommended BIOL 310 or 325. (winter)
- BIOL 361 Ultrastructure 4**
The examination of cellular structure as seen through the electron microscope. Introduction to theory of operation of the electron microscope, interpretation of electron micrographs, comparisons of fine structure of different cell types, correlations of structures with cellular functions, examples of research applications. Lecture/demonstration format; three lectures and one demonstration period per week. Prerequisite: BIOL 165 and permission of instructor. (winter)
- BIOL 385 Plant Physiology 5**
Study of the function of plants, with emphasis on the wide range of physiological process that may contribute to success and survival of plants in their environment. Transport mechanisms; water and mineral management; responses to light, including photosynthesis, photoperiodism, and photomorphogenesis; functions of plant hormones; responses to environmental stresses; events in development. Four lecture and three laboratory hours per week. Individual project. Prerequisites: BIOL 165, 166, 167; CHEM 337/347 or CHEM 232/234. (spring, even years)
- BIOL 388 Animal Physiology 5**
Study of the function of animals, with emphasis on processes that contribute to the success and survival of animals in their respective environments. Nerve and muscle function, hormonal regulation, osmoregulation, digestion, and thermoregulation. Four lecture and three laboratory hours per week. Prerequisites: BIOL 165, 166, 167; CHEM 232/234 or CHEM 337/347. (fall)
- BIOL 391 Special Topics 1 to 5**
- BIOL 392 Special Topics 1 to 5**
- BIOL 393 Special Topics 1 to 5**
- BIOL 415 Fundamentals of Immunology 3**
Humoral and cellular immune systems; clonal selection theory; antigen and antibody properties and interactions, immunological diversity; autoimmune diseases; AIDS; cancer immunology; monoclonal antibodies and immunotherapy. Prerequisites: BIOL 165, 200/210; CHEM 102 or CHEM 337 or CHEM 232. (spring, even years)
- BIOL 422 Medical Microbiology 3**
Study of clinically significant bacterial and viral pathogens. Characteristics of pathogenic microorganisms and their mechanisms of pathogenesis at the cellular and molecular level will be emphasized. Epidemiological and immunological aspects of microbial diseases will also be considered. Three lecture hours per week. Prerequisites: BIOL 220 or 300; CHEM 102 or CHEM 337, or CHEM 232. (spring, odd years)

- BIOL 440 Molecular Genetics 5**
Study of heredity at the molecular level, including gene structure, transcription, mutation, DNA replication, recombinant DNA methodologies and their applications. Three lectures and one laboratory per week. Prerequisites: BIOL 165; CHEM 337/347 or 232/242. (winter)
- BIOL 470 General Ecology 5**
Study of the interactions between organisms in biological communities and the relationship of biological communities to the environment. Topics include: population growth and regulation, competition and predation, community energetics and nutrient cycling, comparative ecosystem analysis, and the evolution of ecosystems. Laboratory exercises include: field sampling techniques, experimental population manipulations, and ecosystem modeling. Four lecture and three laboratory hours per week. One weekend field trip. Prerequisites: MATH 120; BIOL 165, 166, 167. Recommended: BIOL 235 or BIOL 252; PSYC 201. (fall, spring)
- BIOL 485 Cell Physiology 5**
Cellular structure and function from a molecular approach. Topics include: membrane transport, cell division, protein synthesis and secretion, cell communication, the cytoskeleton, and cell motility. Emphasis on biochemical laboratory techniques. Four lecture and three laboratory hours per week. Prerequisites: BIOL 165, 166, 167; CHEM 337/347 or 232/234. (fall)
- BIOL 487 Biology Senior Synthesis: Independent Experience 2 to 4**
Gives students the opportunity to integrate their liberal arts background from the core with studies in their major. Varying with individual students' needs, it may involve independent laboratory or field research, library research, or practical work experience. A written project proposal and final report are required. Prerequisites: senior standing in biology major or permission of department chair. (fall or winter) (formerly BL 494)
- BIOL 488 Biology Senior Synthesis: Seminar 1**
Follows BIOL 487. Each student orally presents the results of his/her independent experience to students and faculty in the Biology Department. Prerequisites: senior standing, BIOL 494. (spring) (formerly BL 495)
- BIOL 491 Special Topics 1 to 5**
- BIOL 492 Special Topics 1 to 5**
- BIOL 493 Special Topics 1 to 5**
- BIOL 496 Independent Study 1 to 5**
- BIOL 497 Directed Reading 1 to 5**
- BIOL 498 Directed Research 1 to 5**
- BIOL 499 Undergraduate Research 1 to 5**
Literature and laboratory investigation of a basic research problem. Preparation of a written report. N grade option approved for research project. Prerequisite: permission of chair. (fall, winter, spring)

Chemistry

Susan C. Jackels, Ph.D., Chair

Objectives

Programs offered by the Chemistry Department are designed to prepare the student for professional work in the various fields of basic and applied chemistry. The bachelor of science in chemistry or bachelor of science in biochemistry degree is recommended to students who wish to prepare themselves for graduate studies in chemistry, biochemistry, medical/dental school or for work in the chemical or biochemical industry. Both of these degrees have options for certification by the American Chemical Society. Some additional courses are required to meet the certification requirements.

The bachelor of arts degree is recommended for those desiring a solid foundation in chemistry along with greater freedom of choice for elective courses from programs such as education, business, engineering, or other fields within the university.

The medical technology program is designed to prepare students for professional careers as technologists in medical, biological or biotechnological laboratories. Students with a B.S. in medical technology are eligible for professional certification after completing a one-year internship in an accredited clinical laboratory training program.

Degrees Offered

Bachelor of Arts

Bachelor of Science in Chemistry

(and American Chemical Society certified option)

Bachelor of Science in Biochemistry

(and American Chemical Society certified option)

Bachelor of Science in Medical Technology

Majors Offered

Chemistry

Biochemistry

Medical Technology

Minor Offered

Chemistry

Bachelor of Arts Major in Chemistry

In order to earn the bachelor of arts degree with a major in chemistry, students must complete a minimum of 180 quarter credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	

ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis (CHEM 488 and 489 required*)	.....	3 to 5

See detailed core curriculum information in this bulletin

*Major requirement.

II. Major Program Requirements

Forty-seven credits in chemistry, including:

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry Lab II	1
CHEM 123	General Chemistry III	4
CHEM 133	General Chemistry Lab III	1
CHEM 231	Fundamental Organic Chemistry I	4
CHEM 241	Fundamental Organic Chemistry Lab I	2
CHEM 232	Fundamental Organic Chemistry II	4
CHEM 242	Fundamental Organic Chemistry Lab II	2
CHEM 319	Quantitative Analysis	5
CHEM 361	Physical Chemistry II	3
CHEM 363	Physical Chemistry Lab I	2

Choose 10 credits from among the following electives

CHEM 260	Laboratory Safety (2)	10
CHEM 360	Physical Chemistry I (3)	
CHEM 362	Physical Chemistry III (3)	
CHEM 364	Physical Chemistry Lab II (2)	
CHEM 415	Advanced Inorganic Chemistry (3)	
CHEM 425	Synthetic Inorganic Chemistry Lab (2)	
CHEM 426	Instrumental Analysis (5)	
CHEM 436	Advanced Organic Chemistry (3)	
CHEM 454	Biochemistry I (3)	
CHEM 455	Biochemistry II (2)	
CHEM 456	Biochemistry III (3)	
CHEM 464	Biochemistry Lab I (2)	
CHEM 465	Biochemistry Lab II (1)	
CHEM 499	Undergraduate Research (1 to 3)	

and special topics or independent study courses.

III. Other Major Department Requirements

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH	Elective (above MATH 135)	5

Choose physics series a. or b.:	15
a. PHYS 105 Mechanics and Sound	
PHYS 106 Electricity, Magnetism, and Thermodynamics	
PHYS 107 Survey of Modern Physics	
b. PHYS 200 Mechanics	
PHYS 201 Electricity and Magnetism	
PHYS 202 Waves, Optics, and Thermodynamics	

Please Note: The senior synthesis core requirement for the B.A. with a chemistry major is CHEM 488, 489 and 1-3 credits of CHEM 499 or one credit of CHEM 490.

Bachelor of Science in Chemistry

In order to earn the bachelor of science in chemistry degree, students must complete a minimum of 180 quarter credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Social Science II (different discipline from Social Science I)		5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary		3 to 5
Senior Synthesis (CHEM 488, 489, and 499 required*)		3 to 5

See detailed core curriculum information in this bulletin

*Major requirement.

II. Major Requirements

Sixty credits in chemistry, including:

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry Lab II	1
CHEM 123	General Chemistry III	4
CHEM 133	General Chemistry Lab III	1
CHEM 319	Quantitative Analysis	5
CHEM 335	Organic Chemistry I	3
CHEM 345	Organic Chemistry Lab I	2
CHEM 336	Organic Chemistry II	3
CHEM 346	Organic Chemistry Lab II	2
CHEM 337	Organic Chemistry III	4

CHEM 347	Organic Chemistry Lab III	2
CHEM 360	Physical Chemistry I	3
CHEM 363	Physical Chemistry Lab I	2
CHEM 361	Physical Chemistry II	3
CHEM 364	Physical Chemistry Lab II	2
CHEM 362	Physical Chemistry III	3
CHEM 426	Instrumental Analysis	5
CHEM	Electives (400 level)	6

III. Other Major Department Requirements

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics, and Thermodynamics	5

Choose one of the following two courses: 3 or 5

CSSE 103	Introduction to Computers and Applications (5)
MATH 232	Multivariable Calculus (3)

Please Note: 1. For the American Chemical Society certified degree option, the 6-credit elective, above under II, must be replaced by CHEM 415, CHEM 454, CHEM 464, and five additional credits of approved advanced work in chemistry (note CHEM 499 is acceptable here). 2. For students planning graduate work, any of the courses, MATH 232, MATH 233, MATH 234, PHYS 204, and PHYS 205, or CHEM 260, 415, 425, 436, 454, 455, 456, 464, and 465 are strongly recommended as electives. 3. The senior synthesis core requirement for the B.S. in Chemistry is CHEM 488, 489 and 1 to 3 credits of CHEM 499.

Bachelor of Science in Biochemistry

In order to earn the bachelor of science in biochemistry degree, students must complete a minimum of 180 quarter credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses: 5

HIST 120	Origins of Western Civilization
HIST 121	Studies in Modern Civilization

ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis (CHEM 488, 489, and 499 required*)	.....	3 to 5

See detailed core curriculum information in this bulletin

*Major requirement.

II. Major Requirements

Sixty credits of chemistry, including:

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry Lab II	1
CHEM 123	General Chemistry III	4
CHEM 133	General Chemistry Lab III	1
CHEM 319	Quantitative Analysis	5
CHEM 335	Organic Chemistry I	3
CHEM 345	Organic Chemistry Lab I	2
CHEM 336	Organic Chemistry II	3
CHEM 346	Organic Chemistry Lab II	2
CHEM 337	Organic Chemistry III	4
CHEM 347	Organic Chemistry Lab III	2
CHEM 361	Physical Chemistry II	3
CHEM 363	Physical Chemistry Lab I	2

Choose one of the following two courses:

CHEM 415 Advanced Inorganic Chemistry

CHEM 436 Advanced Organic Chemistry

CHEM 454 Biochemistry I

CHEM 455 Biochemistry II

CHEM 456 Biochemistry III

CHEM 464 Biochemistry Lab 1

CHEM 465 Biochemistry Lab II

Choose option a. or b.:

a. CHEM 426 Instrumental Analysis (5)

b. CHEM 362 Physical Chemistry III (3)

CHEM 364 Physical Chemistry Lab II (2)

III. Other Major Department Requirements

BIOL 165	General Biology I	5
BIOL 440	Molecular Genetics	5
BIOL 485	Cell Physiology	5
MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus III	5
PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics, and Thermodynamics	5

Please Note: 1. For the American Chemical Society certified degree option, the student must take CHEM 415 and both CHEM 426 and CHEM 362/364. CHEM 260 is a highly recommended elective. 2. The senior synthesis core requirement for the B.S. in Biochemistry is CHEM 488, 489 and 1 to 3 credits of CHEM 499.

Bachelor of Science in Medical Technology

In order to earn the bachelor of science in medical technology degree, students must complete a minimum of 180 quarter credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Social Science II (different discipline from Social Science I)		5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary		3 to 5
Senior Synthesis (CHEM 488 and 489 required*)		3

See detailed core curriculum information in this bulletin

*Major requirement.

II. Major Requirements

Forty-two credits, including:

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry Lab II	1
CHEM 123	General Chemistry III	4
CHEM 133	General Chemistry Lab III	1
CHEM 231	Fundamental Organic Chemistry I	4
CHEM 232	Fundamental Organic Chemistry II	4
CHEM 241	Fundamental Organic Chemistry Lab I	2
CHEM 242	Fundamental Organic Chemistry Lab II	2
CHEM 319	Quantitative Analysis	5
CHEM 454	Biochemistry I	3
CHEM 455	Biochemistry II	2
CHEM 464	Biochemistry Lab I	2
CHEM 465	Biochemistry Lab II	1
CHEM	Electives	1

III. Other Major Department Requirements

Choose two of the following three courses:

BIOL 165	General Biology I	10
BIOL 166	General Biology II	
BIOL 167	General Biology III	
BIOL 200	Anatomy and Physiology I	5

BIOL 210	Anatomy and Physiology II	5
Choose one of the following two courses:		5
BIOL 220	Microbiology	
BIOL 300	Microbiology	
BIOL 240	Genetics	4
BIOL 415	Fundamentals of Immunology	3
BIOL 485	Cell Physiology	5
BIOL	Electives	4
CSSE 103	Introduction to Computers and Applications	5
MATH 131	Calculus for Life Sciences	5
PHYS 105	Mechanics and Sound	5
PHYS 106	Electricity, Magnetism, and Thermodynamics	5

Please Note: 1. Professional certification requires a one-year internship in an accredited laboratory-training program after completion of the degree. Application for internship is normally made in November for internships starting the following year. 2. The senior synthesis core requirement for the B.S. in Medical Technology is CHEM 488, 489 and 1 credit of CHEM 490.

Minor in Chemistry

In order to earn a minor in chemistry, students must complete 35 credits in chemistry, including:

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry Lab II	1
CHEM 123	General Chemistry III	4
CHEM 133	General Chemistry Lab III	1
CHEM 319	Quantitative Analysis	5
CHEM Elective (200 level or above)	.....	5
Organic chemistry (200 level or above)	.....	10

See policy for minors on p. 46.

Teacher Education

The teacher preparation program is a graduate-level program only. Students planning to become elementary or secondary chemistry or general science teachers must complete a bachelor's degree prior to beginning the teacher preparation program. They should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Chemistry Courses

Credit may be received for only one of each of the following pairs of courses: CHEM 231/335; 232/336; 241/345; 242/346. A student who completes CHEM 231 with a grade of B or better may enroll in CHEM 336 with the permission of the instructor.

CHEM 101	Introductory General Chemistry	5
Survey of inorganic chemistry, treating the basic principles and descriptive material relevant to the health sciences. Core lab science course. Four lecture and three laboratory hours per week. Prerequisite: MATH 107 or 110, or placement at a higher math level. (fall)		

- CHEM 102 Introductory Organic and Biochemistry 5**
Organic chemistry and introduction to biochemistry with application to the health sciences. Four lecture and three laboratory hours per week. Prerequisite: CHEM 101 or equivalent. (spring)
- CHEM 121 General Chemistry I 4**
Atomic and molecular structure, oxidation-reduction reactions, mass relationships, periodic properties, acids, bases ionic reactions, Five lectures per week. Prerequisites: CHEM 101 or high school chemistry and placement into MATH 120 or higher. Corequisite: CHEM 131 (fall, winter)
- CHEM 122 General Chemistry II 4**
Thermochemistry, gases, solutions, equilibria. Four lectures per week. Prerequisite: CHEM 121 (with C- or better). Corequisites: CHEM 132 and MATH 120 or placement at higher math level (winter, spring)
- CHEM 123 General Chemistry III 4**
Thermodynamics, kinetics, electrochemistry, nuclear chemistry, chemistry of metals and nonmetals. Four lectures per week. Prerequisite: CHEM 122 (with C- or better) and MATH 120. Corequisite: CHEM 133 (spring, summer)
- CHEM 131 General Chemistry Lab I 1**
- CHEM 132 General Chemistry Lab II 1**
Introduction to basic laboratory procedures and safety, practice in modes of scientific inquiry, including observation, measurement, data collection, interpretation and evaluation of results, and reporting. Three hours per week. Prerequisite: CHEM 131 for 132. Corequisites: CHEM 121 for 131; 122 for 132. (131, fall, winter; 132, winter, spring)
- CHEM 133 General Chemistry Lab III 1**
Introduction to qualitative chemical analysis on a semimicro scale. Experimentation in the chemistry of ionic systems and basic quantitative analytical methods. Four hours per week. Corequisite: CHEM 123; Prerequisite: CHEM 132. (spring, summer)
- CHEM 231 Fundamental Organic Chemistry I 4**
- CHEM 232 Fundamental Organic Chemistry II 4**
Structure, bonding, nomenclature, reactions, and synthesis of organic compounds: 1) alkanes, alkenes, alkynes, alkyl halides, aromatic, and heteroaromatic compounds; 2) alcohols, ethers, phenol, thiols, aldehydes, ketones, carboxylic acids and derivatives, amines, carbohydrates, amino acids, and proteins. Spectroscopic applications. Each is four lecture hours per week. Prerequisites: CHEM 123 (with C- or better), 133 for 231; 231 for 232. (231 winter; 232 spring) (Not recommended for premed students)
- CHEM 241 Fundamental Organic Chemistry Lab I 2**
- CHEM 242 Fundamental Organic Chemistry Lab II 2**
Techniques used in synthesis, isolation, and identification of organic compounds. Each is four laboratory hours per week. CHEM 231 is the corequisite for 241; CHEM 232 for 242; CHEM 241 is the prerequisite for 242. (241 winter; 242 spring) (formerly CHEM 233 and 234)

- CHEM 260 Laboratory Safety 2**
Important aspects of hazardous chemicals and laboratory safety, including pertinent laws and regulations. Establishing and maintaining a safe working environment in the laboratory. Prerequisite: One quarter of general chemistry. (spring)
- CHEM 291 Special Topics 1 to 5**
- CHEM 292 Special Topics 1 to 5**
- CHEM 293 Special Topics 1 to 5**
- CHEM 319 Quantitative Analysis 5**
Theory, methods, and techniques of volumetric, electro-analytical, spectrophotometric, chromatographic and micro-analytical procedures in quantitative analysis; introductory statistics. Two lecture and six laboratory hours per week. Prerequisites: CHEM 123 (with C- or better), 133 and junior level standing or permission of chair. (fall, winter) (formerly CHEM 219)
- CHEM 335 Organic Chemistry I 3**
Structural theory, functional groups, nomenclature, stereochemistry, kinetics and thermodynamics of organic reactions, syntheses of organic compounds, and applications; hydrocarbons and alkyl halides. Four lectures per week. Prerequisites: CHEM 123 (with C- or better) (fall)
- CHEM 336 Organic Chemistry II 3**
Structural theory, functional groups, nomenclature, stereochemistry, kinetics and thermodynamics of organic reactions, syntheses of organic compounds, and applications; spectroscopy, aromatic and oxy-organic compounds. Four lectures per week. Prerequisites: CHEM 335 (with C- or better) (winter)
- CHEM 337 Organic Chemistry III 4**
Structural theory, functional groups, nomenclature, stereochemistry, kinetics and thermodynamics of organic reactions, syntheses of organic compounds, and applications; amines, phenols and aryl halides, carbanions and the structure and chemistry of biomolecules. Four lectures per week. Prerequisites: CHEM 336 (with C- or better) (spring)
- Note:** summer organic courses are also offered.
- CHEM 345 Organic Chemistry Lab I 2**
Theory and practice of laboratory techniques; experimental study of properties of organic compounds; introduction to organic synthesis. Four hours per week. Prerequisite: CHEM 133. Corequisite: CHEM 335 (fall)
- CHEM 346 Organic Chemistry Lab II 2**
Application of laboratory techniques in simple and multistep syntheses; qualitative and quantitative measurements of properties of organic compounds; determination of kinetic and thermodynamic parameters. Four hours per week. Prerequisite: CHEM 345; Corequisite: CHEM 336. (winter)

- CHEM 347 Organic Chemistry Lab III 2**
Instrumental and classical qualitative techniques applied to the identification of organic compounds. Five hours per week. Prerequisite: CHEM 346 (or 242) Corequisite: CHEM 337 (or prerequisite 232). (spring)
- CHEM 360 Physical Chemistry I 3**
- CHEM 361 Physical Chemistry II 3**
- CHEM 362 Physical Chemistry III 3**
1. Quantum chemistry and spectroscopy. 2. States of matter, thermodynamics, equilibrium, kinetics. 3. Theory of reaction rates, thermodynamics of solutions, phase equilibrium, electrochemistry, photochemistry and statistical thermodynamics. Three lectures per week. 1 may be taken either before or after 2 and 3. Prerequisites: CHEM 123, CHEM 133, MATH 136, and one year of physics for CHEM 360 and CHEM 361; CHEM 361 for CHEM 362. (CHEM 360-fall, CHEM 361-winter, CHEM 362-spring)
- CHEM 363 Physical Chemistry Laboratory I 2**
- CHEM 364 Physical Chemistry Laboratory II 2**
Quantitative measurements of physical chemical phenomena, detailed data analysis, evaluation. Four laboratory hours per week. Prerequisites: CHEM 319 (with C- or better) for CHEM 363; CHEM 363 for CHEM 364. CHEM 361 is corequisite for CHEM 363; CHEM 362 is corequisite for CHEM 364. (CHEM 363-winter; CHEM 364-spring)
- CHEM 391 Special Topics 1 to 5**
- CHEM 392 Special Topics 1 to 5**
- CHEM 393 Special Topics 1 to 5**
- CHEM 396 Directed Study 1 to 5**
- CHEM 415 Advanced Inorganic Chemistry 3**
Advanced topics in inorganic chemistry, with particular attention to the transition metals, including their compounds, properties and biochemistry. Prerequisite: CHEM 361. (spring)
- CHEM 425 Synthetic Inorganic Chemistry Laboratory 2**
Synthesis and characterization of inorganic compounds involving a variety of laboratory techniques and instrumentation, including, high temperature, vacuum line or inert atmosphere and nonaqueous solvent syntheses and characterization by NMR, FTIR, conductivity, GC, magnetic susceptibility and UV-Vis spectroscopy. Four laboratory hours per week. Prerequisite: CHEM 319 (with C- or better). Corequisite: CHEM 415. (spring)
- CHEM 426 Instrumental Analysis 5**
Theory and techniques of instrumental methods representative of spectrometric, electroanalytical and chromatographic techniques. Two lecture and two four-hour laboratory periods per week. Prerequisites: CHEM 319 (with C- or better), 361. (spring) (formerly CHEM 326)
- CHEM 436 Advanced Organic Chemistry 3**
Advanced topics in organic chemistry. Directed reading and/or lectures. Prerequisite: CHEM 361 and one year organic chemistry. (spring)
- CHEM 454 Biochemistry I 3**
Structure and function of amino acids, proteins, lipids, carbohydrates and nuclear acids. Kinetics and mechanisms of enzyme action. Molecular aspects of cell biology and function. Prerequisites: BIOL 165 or permission of chair; C- or better in CHEM 232 or CHEM 337, (fall)

- CHEM 455 Biochemistry II 2**
Mechanistic study of the biosynthesis of nucleic acids and proteins using directed readings. Two lecture hours per week. Prerequisite: CHEM 454. (winter)
- CHEM 456 Biochemistry III 3**
Intermediary metabolism: A study of the metabolism of carbohydrates, lipids, amino acids, and nucleic acids with emphasis on enzymology, thermodynamics, metabolic control mechanisms, and integration of control between metabolic pathways. Prerequisite: CHEM 454 (spring)
- CHEM 464 Biochemistry Lab I 2**
Current laboratory methods in biochemistry including amino acid analysis, enzyme kinetics, protein purification techniques, gel electrophoresis, immunoblotting, and fatty acid analysis. Prerequisites: CHEM 242 or CHEM 347; C- or better in CHEM 319. Corequisite: CHEM 454 (fall)
- CHEM 465 Biochemistry Lab II 1**
Methods of biotechnology including the polymerase chain reaction. Three laboratory hours per week. Prerequisites: CHEM 454 and CHEM 464. Corequisite: CHEM 455 (winter)
- CHEM 480 Interdisciplinary Core Course 3 to 5**
Title and content change each term.
- CHEM 488 Senior Synthesis Seminar I 1**
Initiation of a research project. Includes on-line chemical literature search, project formulation, annotated bibliography and preparation of a brief research proposal. Required as part of the senior synthesis core requirement for chemistry, biochemistry and medical technology majors. (fall)
- CHEM 489 Senior Synthesis Seminar II 1**
Presentation of the senior synthesis project. Includes oral and written presentation of the senior synthesis project according to the American Chemical Society guidelines for undergraduate research presentations. Required as part of the senior synthesis core requirement for chemistry, biochemistry and medical technology majors. Prerequisite: CHEM 488. (spring)
- CHEM 490 Senior Synthesis 1 to 3**
Capstone activity, usually a mini-internship at an approved clinical laboratory site. A minimum of four laboratory hours per week per credit. Prerequisite: CHEM 488. Permission of chair.
- CHEM 491 Special Topics 1 to 5**
- CHEM 492 Special Topics 1 to 5**
- CHEM 493 Special Topics 1 to 5**
- CHEM 496 Independent Study 1 to 5**
- CHEM 497 Directed Reading 1 to 5**
- CHEM 498 Directed Research 1 to 5**
Permission of chair required.
- CHEM 499 Undergraduate Research 1 to 6**
Literature and laboratory investigation of a research problem in collaboration with a Chemistry Department faculty member or approved external advisor. A minimum of four laboratory hours per week per credit. Prerequisite: CHEM 488. Permission of chair.

Civil and Environmental Engineering

Rolf Skrinde, PhD, P.E., Chair

Objectives

Civil engineering is the knowledge of mathematical and physical sciences to provide structures, improve and protect the environment, and provide facilities for community living, industry, and transportation for the use of mankind.

The Civil and Environmental Engineering Department is dedicated to the education of professional civil and environmental engineers. This is accomplished by the application of the highest standards of excellence in education, performance of services, and ethical conduct. It recognizes that specialization in engineering subjects is integrative with courses that speak to the arts and culture of civilization and to the study of natural systems.

Analysis and design courses in the fields of environmental, geotechnical, hydraulic, structural, and water resources engineering are offered in addition to preparatory courses in sciences and basic mechanics. A broad base of theory is provided, along with its application to current practices of the profession.

The program objectives are:

- To provide competence in mathematics and the natural and engineering sciences which are the technical foundation of the profession.
- To expose all students to a comprehensive civil engineering curriculum which includes structural, environmental, geotechnical, and water resources engineering together with electives which will provide an opportunity for emphasis in these and related topics within the broad field of civil engineering.
- To give students a significant exposure to the humanities and social sciences in order to broaden their appreciation of the world and give them an understanding of the role of engineering in the larger society.
- To give students significant opportunities to apply engineering principles and tools to open-ended design problems.
- To instill in students an appreciation for the need to be life-long learners in a rapidly changing field.
- To develop in students an open-minded but critical approach to the analysis of problems, keeping in mind the technical, professional, social and ethical dimensions of any solution.
- To develop oral and written communication skills that allow one to be an effective advocate for one's point of view.
- To encourage the initiative and flexibility needed to function well either individually or as a member of a team when multidisciplinary skills must be brought to bear on a problem.

Degree Offered

Bachelor of Science in Civil Engineering

Majors Offered

Civil Engineering

Civil Engineering with Specialization in Environmental Engineering

Departmental Requirements

In addition to the prerequisites, departmental candidacy in one of the engineering departments is required for entry into 300- and 400-level courses. Candidacy is achieved by successfully completing all required 100- and 200-level engineering, chemistry, com-

puter science, mathematics, and physics courses with a combined grade point average of at least 2.50, as well as ENGL 110. Only courses graded C (2.0) or better may be transferred into the department to offset degree requirements.

For graduation, a minimum 2.5 cumulative grade point average is required, as well as a minimum 2.5 average in Seattle University classes in science, computer science, physics, mathematics, and engineering courses.

Taking the Washington state Fundamentals of Engineering (FE) examination is required for the degree. This degree is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Bachelor of Science in Civil Engineering Major in Civil Engineering

In order to earn the bachelor of science in civil engineering degree, students must complete a minimum of 192 credits including 45 credits in core curriculum, with a cumulative and major/department grade point average of 2.5, including the following:

I. Core Curriculum Requirements

Students majoring in civil engineering must earn a minimum of 45 credits in the core curriculum.

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics)		5
Social Science II satisfied by CEEGR 402		
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major.		
Senior synthesis filled by CEEGR 487, 488, 489.		

See detailed core curriculum information in this bulletin

II. Major Requirements

Seventy-five credits, including:

CEEGR 221	Strength of Materials I	4
CEEGR 222	Strength of Materials Lab I	2
CEEGR 311	Engineering Measurements	5
CEEGR 323	Strength of Materials II	4
CEEGR 324	Strength of Materials Lab II	2
CEEGR 331	Fluid Mechanics	4
CEEGR 335	Applied Hydraulics	4
CEEGR 337	Fluids Lab	2
CEEGR 351	Engineering Geology	3
CEEGR 353	Soil Mechanics	3
CEEGR 371	Water Resources I-Surface Water Hydrology	3

CEEGR 402	Engineering Economy	3
CEEGR 445	Structural Mechanics	5
CEEGR 473	Environmental Engineering I-Fundamentals	5
CEEGR 487	Engineering Design I	4
CEEGR 488	Engineering Design II	4
CEEGR 489	Engineering Design III	4
Choose elective sequence a. or b.		10
a. CEEGR 447	Structural Design I	
CEEGR 449	Structural Design II	
b. CEEGR 474	Environmental Engineering II - Water Supply and Waste Water Engineering	
CEEGR 475	Solid and Hazardous Waste Engineering	
Choose one of the following four courses:		4
CEEGR 455	Foundation Design	
CEEGR 461	Introduction to Urban Transportation Engineering	
CEEGR 472	Water Resources II - Applied Hydrology	
CEEGR 485	Cold Regions Engineering	

III. Other Major Department Requirements

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
MMEGR 105	Engineering Graphics and Design	3
MMEGR 210	Statics	4
MMEGR 230	Dynamics	5
MMEGR 321	Thermodynamics	4
MMEGR 381	Engineering Methods	4
MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics, and Thermodynamics	5
Science elective		5
Unspecified elective		2

Please Note: Fundamentals of Engineering (FE) examination is required for graduation.

Bachelor of Science in Civil Engineering Major in Civil Engineering with a Specialization in Environmental Engineering

In order to earn the bachelor of science in civil engineering degree with a specialization in environmental engineering, students must complete a minimum of 45 credits in core curriculum and 192 credits total. A cumulative 2.5 grade point average is required, in addition to a 2.5 average in major/department requirements, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics)		5
Social Science II satisfied by CEEGR 402		
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major.		
Senior synthesis filled by CEEGR 487, 488, 489.		

Students majoring in civil engineering with an environmental engineering specialty must earn a minimum of 45 credits in the core curriculum. See detailed core curriculum information in this bulletin.

II. Major Requirements

Seventy credits, including:

CEEGR 221	Strength of Materials I	4
CEEGR 222	Strength of Materials Lab I	2
CEEGR 331	Fluid Mechanics	4
CEEGR 335	Applied Hydraulics	4
CEEGR 337	Fluids Lab	2
CEEGR 341	Biological Principles for Environmental Engineers	4
CEEGR 342	Environmental Engineering Chemistry	4
CEEGR 351	Engineering Geology	3
CEEGR 353	Soil Mechanics	3
CEEGR 371	Water Resources I-Surface Water Hydrology	3
CEEGR 402	Engineering Economy	3
CEEGR 473	Principles of Environmental Engineering	5
CEEGR 474	Water Supply and Wastewater Engineering	5
CEEGR 475	Solid and Hazardous Waste Engineering	5
CEEGR 476	Environmental Law and Impact Studies	3
CEEGR 487	Engineering Design I	4
CEEGR 488	Engineering Design II	4
CEEGR 489	Engineering Design III	4

Choose one of the following three courses:

CEEGR 343	Air Pollution Engineering	
CEEGR 455	Foundation Design	
CEEGR 472	Water Resources II-Ground Water Systems	

III. Other Major Department Requirements

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry Lab II	1

MMEGR 105	Engineering Graphics and Design	3
MMEGR 210	Statics	4
MMEGR 230	Dynamics	5
MMEGR 321	Thermodynamics	4
MMEGR 381	Engineering Methods	4
MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics, and Thermodynamics	5
Choose one of the following two courses:		5
BIOL 101	Principles of Biology	
BIOL 165	General Biology I	
Unspecified elective		2

Please Note: Fundamentals of Engineering (FE) examination is required for graduation.

Civil and Environmental Engineering Courses

CEEGR 221 Strength of Materials I 4

Mechanics of solid deformable bodies; relationships between the external forces acting on elastic bodies and the stresses and deformations produced. Members subjected to tension, compression, flexure, and torsion. Four lecture hours and one hour of recitation/quiz per week. Prerequisites: MMEGR 230, MATH 232. (fall, spring)

CEEGR 222 Strength of Materials Laboratory I 2

Laboratory experiments on the mechanics of solid deformable bodies and the relationships between tension, compression, flexure, and torsion. Developing technical report writing skills; use of spreadsheets and computer graphics. Four hours per week. Pre- or corequisite: CEEGR 221. (fall, spring)

CEEGR 291 Special Topics 1 to 5

CEEGR 292 Special Topics 1 to 5

CEEGR 293 Special Topics 1 to 5

CEEGR 311 Engineering Measurements 5

Introduction to surveying and mapping. Concepts, instruments and practice of engineering measurements, topographic mapping, public land system, boundary surveys, aerial photogrammetry, and the global position system; error adjustment, earthwork, and highway curve design. Four lectures and one laboratory period per week. Prerequisites: MATH 120, 121, and MMEGR 105. (spring)

- CEEGR 323 Strength of Materials II 4**
Continuation of the mechanics of solid deformable bodies. Beam topics, stability of columns, combined stresses and strains, fatigue and energy relationships. Four lecture hours and one hour of recitation/quiz per week. Prerequisites: CEEGR 221, MATH 234. (winter)
- CEEGR 324 Strength of Materials Laboratory II 2**
Laboratory experiments on the mechanics of solid deformable bodies and the stresses and deformations produced. Members under combined loads of tension, compression, torsion and flexure; behavior of composite beams, indeterminate beams and long slender columns. Improving technical writing skills; use of spreadsheets and computer graphics. Four hours per week. Prerequisite: CEEGR 222. Pre- or corequisite: CEEGR 323. (winter)
- CEEGR 331 Fluid Mechanics 4**
Fluid properties. Elementary mechanics of incompressible fluids. Hydrostatics and fluid kinematics. Continuity and energy equations. Fluid resistance phenomena and estimations for laminar and turbulent flows. Momentum equation and dynamic forces. Basic hydraulic machinery and power calculations. Pre- or corequisite: MMEGR 230. (fall, winter)
- CEEGR 335 Applied Hydraulics 4**
Extension and application of fluid mechanics principles. Pipes in series and in parallel. Branching pipes and pipe networks. Pipeline system curves. Analysis of pumping systems. Dynamic similitude and hydraulic modeling. Basic open channel flow. Prerequisite: CEEGR 331. (winter, spring)
- CEEGR 337 Fluids Laboratory 2**
Experimental calibration of various flow meters, loss coefficients, and pipe friction factors. Experimental verification of various principles of fluid mechanics. One lecture and one four-hour laboratory per week. Prerequisite: CEEGR 331. (winter, spring)
- CEEGR 341 Biological Principles for Environmental Engineers 4**
Basic principles of microbiology and biochemistry as applied to environmental control and wastewater treatment. Kinetic and energetic aspects are emphasized. Effects of domestic and industrial water pollution on the biological characteristics of natural waters and aquatic life are studied. Prerequisite: BIOL 101 or BIOL 165 or equivalent. (fall)
- CEEGR 342 Environmental Engineering Chemistry 4**
Principles of chemical kinetics and thermodynamics applied to fundamental understanding of aqueous environmental samples, including natural waters, wastewaters, and treated waters; factors controlling inorganic and organic chemical concentrations, acid-base equilibria, and absorption phenomena. Prerequisites: CHEM 121, CHEM 131, CHEM 122, CHEM 132, or equivalent. (winter)
- CEEGR 343 Air Pollution Engineering 4**
Introductory course in air pollution and its control. Topics include air pollutants and their effects, sources, dispersion models, engineering control, and quality legislation. Junior standing in engineering recommended. (spring)
- CEEGR 351 Engineering Geology 3**
Mineral composition of earth crust; types of rocks, their formation, structures and engineering properties; structural geology; plate tectonics; seismicity; introduction to and use of topographic maps, aerial photographs and geologic maps in engineering projects. Geotechnical field exploration. Erosional and depositional land forms of gravity, river and glaciers. Importance of geology in engineering projects. Three lecture hours per week. (fall)

- CEEGR 474 Water Supply and Wastewater Engineering 5**
Physical, chemical, and biological process design for water supply and wastewater treatment. Four lectures and one laboratory or field trip per week. Prerequisite: CEEGR 473. (winter)
- CEEGR 475 Solid and Hazardous Waste Engineering 5**
Explores the fate and transport of hazardous materials in the environment. Regulatory considerations, programmatic criteria and remediation technologies are also evaluated. Prerequisite: CEEGR 473, CEEGR 474, or permission of instructor. (spring)
- CEEGR 476 Environmental Law and Impact Studies 3**
Social, economic, and engineering factors involved in environmental regulations. National and regional water policies, programs, and administration. Emphasis on national environmental policy act and its implementation. Terminology of environmental inventory, assessment, and impact statement. Senior standing recommended. (winter)
- CEEGR 477 Selected Topics in Environmental Engineering 5**
A comprehensive study of a topic in environmental engineering not covered in another course. Topics will vary to keep pace with current environmental risk assessment, technical advances, research developments, and the EPA's innovative technology program. Senior standing in engineering or science recommended.
- CEEGR 485 Cold Regions Engineering 4**
Engineering considerations in design of structures, utilities, and other facilities under cold climate conditions. Senior standing recommended. (formerly CEE 481)
- CEEGR 487 Engineering Design I 4**
Design process, problem solving and decision making, modeling and simulation, optimization, economics, forecasting, reliability. Four lecture hours per week. Senior standing recommended. Corequisite: CEEGR 402. (fall)
- CEEGR 488 Engineering Design II 4**
- CEEGR 489 Engineering Design III 4**
Group design project focusing on the integrative aspects of engineering subject matter. The project should focus on: (1) philosophy of design, a creative approach, and a comprehensive design project; planning, organizing and leading an engineering project, exercising judgment and considering economic factors; and (2) integrated aspects of creative design and analysis; case studies; design of a novel device or system. Two lecture and four design hours per week. The three-course series fulfills the senior synthesis core requirement. Prerequisite: CEEGR 487 for CEEGR 488; CEEGR 488 for CEEGR 489. (CEEGR 488, winter; CEEGR 489, spring)
- CEEGR 491 Special Topics 1 to 5**
- CEEGR 492 Special Topics 1 to 5**
- CEEGR 493 Special Topics 1 to 5**
- CEEGR 496 Independent Study 1 to 5**
- CEEGR 497 Directed Reading 1 to 5**
- CEEGR 498 Directed Research 1 to 5**

Computer Science/Software Engineering

Everald E. Mills, PhD, Chair

Objectives

The computer science program seeks to prepare students for careers that require sophisticated programming and computer applications in industrial, scientific, technical or educational settings, and to incorporate into the program the principles and techniques of software engineering. The program provides solid foundations for understanding the changing roles of computers in society and encourages students to apply their knowledge to solving a variety of problems through laboratory and project activities.

Recognizing that different people study computer science for different reasons, the department offers both bachelor of science and bachelor of arts degrees. The bachelor of science in computer science (BSCS) degree program provides a rigorous professional, technical educational background, appropriate for a career in software development or for entry into graduate study in computer science. A general option is available, as well as two specializations, the bachelor of science in computer science with a specialization in mathematics, and the bachelor of science in computer science with specialization in business. These specialized options within the BSCS degree program enable students to develop greater interdisciplinary expertise which will better equip them for jobs demanding these skills in the workplace.

The bachelor of arts (BA) degree program offers a sound foundation in computer science courses, while allowing greater flexibility in determining an area of application of the acquired computing skills. It is an excellent preparation for students interested in professional careers involving computer applications in less technical areas such as business or education.

Both the BSCS and BA degree programs require that all students complete a capstone experience, the year-long senior software engineering project which requires students to work in small groups to complete a substantial software system project, working with a faculty adviser and a sponsoring organization from business or industry. In addition to the bachelor's degree programs, the department offers a computer science minor, as well as computer literacy courses.

Degrees Offered

Bachelor of Arts

Bachelor of Science in Computer Science

Master of Software Engineering - See the Graduate Bulletin of Information

Majors Offered

Computer Science

Computer Science with Specialization in Mathematics

Computer Science with Specialization in Business

Minor Offered

Computer Science

Departmental Requirements

In addition to the stated course prerequisites, departmental candidacy is required for entry into all 300- and 400-level courses. Candidacy is achieved by completing all required 100- and 200-level computer science requirements, other program requirements (math and science), and ENGL 110 with a combined grade point average of at least 2.5. Only courses graded C (2.0) or higher may be transferred to satisfy degree requirements. Both the cumulative grade point average and grade point average for major/department courses completed at Seattle University must be at least 2.5 for graduation.

Bachelor of Arts Major in Computer Science

The bachelor of arts degree with a major in computer science requires students to complete a minimum of 180 quarter credits with both a cumulative grade point average and a major/department grade point average of 2.5 or better (II and III below). Students must also achieve a minimum grade of 2.0 in all courses in the major requirements list (see II below).

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking.	5

Choose one of the following two courses:

HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	

ENGL 120	Masterpieces of Literature	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate.....	5
PHIL 220	Philosophy of the Human Person	5
Social Science I.....	.....	5
Social Science II (different discipline from Social Science I) .....	.....	5
Theology and Religious Studies Phase II(200-299) .....	.....	5
Ethics (upper division) .....	.....	5
Theology and Religious Studies Phase III (300-399) .....	.....	5
Interdisciplinary .....	.....	3

Senior Synthesis filled by CSSE 487, 488, and 489.

See detailed core curriculum information in this bulletin.

II. Major Requirements

Fifty-four credits in computer science, including:

CSSE 151	Fundamentals of Computer Science I.	5
CSSE 152	Fundamentals of Computer Science II	5
CSSE 250	Data Structures	5
CSSE 251	Introduction to Computer Organization.	5
CSSE 308	Technical Communication	3
CSSE 310	Design and Analysis of Algorithms.	5
CSSE 380	Organization of Programming Languages	5
CSSE 487	Software Engineering & Project Development I	5
CSSE 488	Software Engineering & Project Development II	3
CSSE 489	Software Engineering & Project Development III.....	3
CSSE	Electives (CSSE 320, 400-level)	10

III. Other Major Department Requirements

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
Choose one of the following two courses:		5
MATH 222	Discrete Structures	
MATH 310	Introduction to Advanced Mathematics	
Choose one of the following two courses:		5
MATH 244	Fundamentals of Probability and Statistics.	
MATH 351	Probability	

*Area of Application 30

*Bachelor of arts degree students must complete a coordinated group of application area courses. These courses must include at least 30 credits of courses in an area of proposed application of computer science. These 30 credits may be those prescribed for a minor in another department, but may not include any credits already required by the Computer Science Department for the bachelor of arts degree. In areas of application where a minor is not prescribed, the Computer Science Department will define the acceptable application area courses, with the assistance of the appropriate departments.

Please Note: 1. A minimum grade of C (2.0) is required in all courses which are direct prerequisites to required CSSE courses. 2. Transfer credits require departmental approval.

Bachelor of Science in Computer Science Major in Computer Science - General Option

The bachelor of science in computer science degree (BSCS) requires students to complete at least 180 quarter credits with both a cumulative grade point average and a major/department grade point average of 2.5 or better (see II and III below). Students must also achieve a minimum grade of 2.0 in all courses in the major requirements list (see II below).

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization.	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Social Science II (different discipline from Social Science I)		5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary		3
Senior Synthesis filled by CSSE 487, 488, 489		

See detailed core curriculum information in this bulletin.

II. Major Requirements

Seventy-four credits in computer science, including:

CSSE 151	Fundamentals of Computer Science I	5
CSSE 152	Fundamentals of Computer Science II	5
CSSE 250	Data Structures	5
CSSE 251	Introduction to Computer Organization	5
CSSE 252	Computer Systems and Assembler Language	5
CSSE 308	Technical Communication	3
CSSE 310	Design and Analysis of Algorithms.	5
CSSE 320	Object-oriented Development	5
CSSE 380	Organization of Programming Languages	5
CSSE 440	Operating Systems	5
CSSE 487	Software Engineering & Project Development I	5
CSSE 488	Software Engineering & Project Development II	3
CSSE 489	Software Engineering & Project Development III	3
CSSE	Electives (400-level)	15

III. Other Major Department Requirements

Forty-eight credits in mathematics, physics, and science including:

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus-and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 233	Linear Algebra	3
PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics and Thermodynamics	5
Science	.....	5

Choose one of the following two courses:

MATH 222	Discrete Structures	
MATH 310	Introduction to Advanced Mathematics	

Choose one of the following two courses:

MATH 244	Fundamentals of Probability and Statistics	
MATH 351	Probability	

Please Note: 1. A minimum grade of C (2.0) is required in all courses which are direct prerequisites to required CSSE courses. 2. Transfer credits require departmental approval. 3. The MATH 134, 135, 136 sequence can be fulfilled by any three quarter or two semester calculus sequence from which Seattle University accepts the first course or courses as substitutes for MATH 134 and 135. 4. The science course may be any physics, chemistry, or biology course which is acceptable toward the physics, chemistry, or biology majors.

Bachelor of Science in Computer Science Major in Computer Science with a Specialization in Business

The specialization in business will prepare students for information management or information technology positions, which are increasingly critical in most companies. In addition to computer science requirements (54 credits), the student will take at least 45 credits of business foundation courses through the Albers School of Business and Economics.

This bachelor of science in computer science degree requires students to complete at least 180 quarter credits with both a cumulative grade point average and a major/specialization/department grade point average of 2.5 or better (see II, III, and IV below). Students must also achieve a minimum grade of C(2.0) in all courses in the major and specialization requirements list (see II and III below).

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics)		5
Social Science II filled by ECON 271		
Theology and Religious Studies Phase II(200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary		3
Senior Synthesis filled by CSSE 487, 488, 489		

See detailed core curriculum information in this bulletin.

II. Major Requirements

Fifty-four credits in computer science, including:

CSSE 151	Fundamentals of Computer Science I	5
CSSE 152	Fundamentals of Computer Science II	5
CSSE 250	Data Structures	5
CSSE 251	Introduction to Computer Organization	5
CSSE 308	Technical Communication	3
CSSE 310	Design and Analysis of Algorithms	5
CSSE 380	Organization of Programming Languages	5
CSSE 487	Software Engineering & Project Development I	5
CSSE 488	Software Engineering & Project Development II	3
CSSE 489	Software Engineering & Project Development III	3
CSSE	Elective (CSSE 320, 400-level)	10

III. Business Specialization Requirements

Forty-five credits in business courses, including:

(No course substitution/waiver is allowed within these requirements.)

ACCT 230	Principles of Accounting I (Financial)	5
ACCT 231	Principles of Accounting II (Managerial)	5
ECON 271	Principles of Economics_Macro	5
ECON 272	Principles of Economics_Micro	5

Choose five of the following courses: 25

ECON 310	Quantitative Methods and Applications
ECON 330	International Economic Events & Business Decisions or
MGMT 320	Global Environment of Business
BUEN 370	Business and International Law
FINC 340	Business Finance
MGMT 380	Principles of Management
MKTG 350	Introduction to Marketing
OPER 360	Manufacturing and Service Operations
	elective from ASBE (one 400-level course)

IV. Other Major Department Requirements

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5

Choose one of the following two courses: 5

MATH 222	Discrete Structures
MATH 310	Introduction to Advanced Mathematics

Choose one of the following three courses: 5

MATH 244	Fundamentals of Probability and Statistics.
MATH 351	Probability
ECON 260	Business Statistics

Please Note: 1. A minimum C(2.0) grade is required in prerequisites to all CSSE required courses. 2. Transfer credits require departmental approval. 3. CSSE business specialization students must meet all prerequisites for courses taken and must be at least at junior standing when enrolled in 300/400 level courses from Albers School of Business and Economics. One 300/400 level business course may be taken beyond the business core. These students must take the above specified business specialization requirements; no course may be waived by petition.

Bachelor of Science in Computer Science Major in Computer Science with a Specialization in Mathematics

This specialization requires students to take 64 credits in computer science and 50 credits in mathematics. The combination of mature skills in applied mathematics and strong computer applications skills is a rare and valuable combination.

This bachelor of science in computer science degree requires students to complete at least 180 quarter credits with both a cumulative grade point average and a major/specialization grade point average of 2.5 or better (see II and III below). Students must also achieve a minimum grade of C(2.0) in all courses in the major and specialization requirements (see II and III below).

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate.....	5
PHIL 220	Philosophy of the Human Person	5
Lab Science	.....	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3
Senior Synthesis filled by CSSE 487, 488, 489		

See detailed core curriculum information in this bulletin.

II. Major Requirements

Sixty-four credits in computer science courses, including:

CSSE 151	Fundamentals of Computer Science I	5
CSSE 152	Fundamentals of Computer Science II	5
CSSE 250	Data Structures	5
CSSE 251	Introduction to Computer Organization	5
CSSE 308	Technical Communication	3
CSSE 310	Design and Analysis of Algorithms	5
CSSE 320	Object-oriented Development	5
CSSE 380	Organization of Programming Languages	5
CSSE 487	Software Engineering & Project Development I	5
CSSE 488	Software Engineering & Project Development II	3
CSSE 489	Software Engineering & Project Development III	3
CSSE	Electives (400 level)	15

III. Mathematics Specialization Requirements

Fifty credits in mathematics courses, including:

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4

Choose one of the following two courses:	5
MATH 222 Discrete Structures	
MATH 310 Introduction to Advanced Mathematics	
Choose one of the following two courses:	5
MATH 244 Fundamentals of Probability and Statistics.	
MATH 351 Probability	
Choose three of the following four courses:	15
MATH 361 Applied Mathematics I	
MATH 331 Introduction to Complex Variables	
MATH 371 Introduction to Numerical Methods	
MATH 461 Applied Mathematics II	

Please Note: 1. A minimum C (2.0) grade is required in prerequisites to all CSSE required courses. 2. Transfer credits require departmental approval.

Minor in Computer Science

In order to earn a minor in computer science, students must complete 30 quarter credits in computer science, selected from:

CSSE 151 Fundamentals of Computer Science I	5
CSSE 152 Fundamentals of Computer Science II	5
CSSE 250 Data Structures	5
CSSE 251 Introduction to Computer Organization	5
CSSE 310 Design and Analysis of Algorithms	5
CSSE 320 Object-oriented Development	5
CSSE 380 Organization of Programming Languages	5

See policy for minors on p. 46.

Advanced Placement Credit

Students who have taken the College Board advance placement test in computer science may petition the department for advanced placement credit on the basis of test results scored three or higher.

Teacher Education

The teacher preparation program is a graduate-level program only. Students interested in teaching should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Computer Science Courses

CSSE 103 Introduction to Computers and Applications 5

An introduction to computer applications and concepts. Applications include word processing, spreadsheets, databases, electronic mail, and other Internet tools. Also covers historical development of computers. A brief introduction to hardware and software, and other concepts of modern computing. Computer-related social and ethical issues. No prior experience with computers required. Credit not granted for both CSSE 103 and CSSE 104. Prerequisites: none. (fall, winter, spring)

- CSSE 151 Fundamentals of Computer Science I 5**
Introduction to the fundamentals of computer science, including programming in a modern high-level language with emphasis on programming design and style. Algorithm development, stepwise refinement, control structures, functions, elementary search algorithms, primitive and aggregate data types. Prerequisite: C (2.0) or better in MATH 134 *Calculus and Analytic Geometry I* (fall, winter)
- CSSE 152 Fundamentals of Computer Science II 5**
Continuation of the introduction to the fundamentals of computer science, including string processing, recursion, internal searching and sorting, abstract data types (ADTs), such as stacks, queues, linked lists and binary trees. Prerequisite: C (2.0) or better in CSSE 151 *Fundamentals of Computer Science I* (winter, spring)
- CSSE 191 Special Topics 1 to 5**
- CSSE 192 Special Topics 1 to 5**
- CSSE 193 Special Topics 1 to 5**
- CSSE 230 FORTRAN for Science and Engineering 3**
Introduction to FORTRAN programming for science and engineering computing. Emphasis on algorithm development and stepwise refinement for solving science and engineering problems. Introduction to numerical techniques. Laboratory programming assignments will be taken primarily from the fields of engineering and science. Credit not granted for both CSSE 230 and CSSE 231. Prerequisites: MMEGR 215 or 230; plus MATH 232 and 233
- CSSE 231 C Programming for Science and Engineering 3**
Introduction to C programming, in a UNIX environment, for science and engineering computing. Emphasis on algorithm development, stepwise refinement for solving science and engineering problems. Programming assignments will be drawn from the fields of engineering and science. Credit not granted for both CSSE 230 and CSSE 231. Prerequisites: MMEGR 215 or 230; plus MATH 232 and 233
- CSSE 250 Data Structures 5**
Abstract data types. Big-Oh notation. Binary search trees, tree balancing techniques, and hash tables. Additional topics may include heaps, priority queues, hash functions, external searching and sorting, and graph algorithms. Prerequisite: C (2.0) or better in CSSE 152 *Fundamentals of Computer Science II* (fall, spring)
- CSSE 251 Introduction to Computer Organization 5**
Basic concepts of computer architecture and digital logic design. Coding of information, number representations, and computer arithmetic. Computer architecture concepts, including CPU, memory and I/O organization. Control unit implementation and microprogramming. Prerequisites: a C (2.0) grade or better in the following: CSSE 152. Pre- or corequisite MATH 222 or MATH 310. (fall, spring)
- CSSE 252 Computer Systems and Assembler Language 5**
Elementary computer structure, machine languages, assembly language programming. Programming will be done in assembly language. Addressing techniques, macros, linkers, loaders, and assemblers. Prerequisite: a C (2.0) grade or better in CSSE 251 or EEGR 201. (winter)
- CSSE 291 Special Topics 1 to 5**

CSSE 292	Special Topics	1 to 5
CSSE 293	Special Topics	1 to 5
CSSE 296	Directed Study	1 to 5
CSSE 308	Technical Communications	3
<p>Communication skills for computer professionals. Writing, speaking, electronic communication. Structure and content of software documentation. This course should be taken concurrently with CSSE 487, the first quarter of the capstone software project course. Prerequisite: C (2.0) or better in CSSE 250 <i>Data Structures</i> and ENGL 110 <i>Freshman English</i> (fall)</p>		
CSSE 310	Design and Analysis of Algorithms	5
<p>Advanced data structures (e.g. sets, graphs, priority queues) and their application; algorithm analysis and design techniques, such as divide and conquer, greedy methods, branch and bound, etc. Asymptotic analysis of algorithms and introduction to computability theory. Prerequisite: C (2.0) or better in CSSE 250 <i>Data Structures</i> and either MATH 222 <i>Discrete Structures</i> or MATH 310 <i>Introduction to Advanced Mathematics</i> (fall, winter)</p>		
CSSE 320	Object-Oriented Development	5
<p>Fundamentals and principles of object-oriented development, including classes, containment, inheritance, overloading and polymorphism. Object-oriented analysis, design and programming. Prerequisite: C (2.0) or better in CSSE 250 <i>Data Structures</i> (winter, spring)</p>		
CSSE 380	Organization of Programming Languages	5
<p>Introduction to the structure and organization of programming languages; semantics; control structures; implementation considerations; garbage collection; parameter passing techniques. Imperative, functional and object-oriented programming paradigms. Prerequisite: C (2.0) or better in CSSE 250 <i>Data Structures</i> (fall, spring)</p>		
CSSE 391	Special Topics	1 to 5
CSSE 392	Special Topics	1 to 5
CSSE 393	Special Topics	1 to 5
CSSE 396	Directed Study	1 to 5

- CSSE 420 Introduction to Database Systems 5**
Introduction to database concepts, the need for database management systems and their use, including relational databases. Elementary concepts of DBMS architecture and design including database security, transaction management, concurrency control and recovery control. Prerequisite: C (2.0) or better in the following: CSSE 250 *Data Structures*, and MATH 222 *Discrete Structures* or MATH 310 *Introduction to Advanced Mathematics*
- CSSE 440 Operating Systems 5**
Basic concepts of operating systems, including machine structures, dynamic processes, system structures; memory management, I/O control, process management, file systems, security issues and recovery techniques. Prerequisite: C (2.0) or better in the following: CSSE 251 *Introduction to Computer Organization*; and CSSE 250 *Data Structures*; and either MATH 244 *Probability and Statistics for the Sciences and Engineering* or MATH 351 *Probability*. (winter)
- CSSE 444 Concurrent Systems 5**
Fundamentals of concurrent programming including: identification of race conditions and standard methods of prevention; correctness of concurrent programs; mutual exclusion; concurrent constructs such as threads, semaphores, monitors, rendezvous and remote procedural calls; and classic concurrent problems such as the reader-writer problem, the producer-consumer problem. Prerequisite: C (2.0) or better in CSSE 252 *Computer Systems and Assembly Language* and CSSE 440 *Operating Systems*
- CSSE 450 Automata, Computability and Formal Languages 5**
Formal mathematical basis of computer science. Topics include set theory, recursive functions, automata, regular sets, formal languages, Turing machines, concepts of computability and computational complexity. Prerequisites: a C (2.0) grade or better in CSSE 310.
- CSSE 465 Computer Graphics 5**
Fundamentals of computer graphics. Techniques of computer image synthesis. Line-drawing and color raster graphics. Homogeneous coordinates, hidden line and surface, and smooth shading algorithms. Prerequisite: C (2.0) or better in CSSE 250 *Data Structures* and either MATH 222 *Discrete Structures* or MATH 310 *Introduction to Advanced Mathematics*
- CSSE 470 Artificial Intelligence 5**
Principal ideas and developments in artificial intelligence, including knowledge representation, goal-directed problem solving, optimal and sub-optimal search, theorem proving, pattern matching. Additional topics may include expert systems, neural nets, simulated annealing, genetic algorithms. Prerequisite: C (2.0) or better in: CSSE 310 *Design and Analysis of Algorithms* and CSSE 380 *Organization of Programming Languages*
- CSSE 485 Translation of Programming Languages 5**
Formal language definitions and descriptions. Syntax, semantics, parsing and translating techniques. Prerequisite: C (2.0) or better in: CSSE 252 *Computer Systems and Assembly Language*; and CSSE 380 *Organization of Programming Languages*.

- CSSE 487 Software Engineering and Project Development I 5**
- Meets regularly in the fall quarter, to cover the principles of software engineering, and to initiate software project activities. Prerequisite for 487: C (2.0) or better in CSSE 310 *Design and Analysis of Algorithms* and in CSSE 380 *Organization of Programming Languages*; pre or co-requisite, CSSE 308 *Technical Communications*; and a major GPA of 2.5 or higher. It is recommended that students enroll in CSSE 308 concurrently with CSSE 487. (fall)
- CSSE 488 Software Engineering and Project Development II 3**
- Meets as required to continue software project work initiated in the fall quarter. Prerequisite for 488: C (2.0) or better in: CSSE 487 *Software Engineering and Project Development* (winter)
- CSSE 489 Software Engineering and Project Development III 3**
- Meets as required to complete software projects by end of spring quarter. Prerequisite for 489: C (2.0) or better in: CSSE 488 *Software Engineering and Project Development II* (spring)
- Principles of software engineering and their application in the planning and execution of a three-quarter-long software development project. Students work in teams to define and carry out software projects from initial requirements statements to final implementation. Activities include project planning and management, as well as analysis, design and implementation of the software project. In CSSE 487, projects are defined and requirements specifications developed by the project teams. The required software products are then designed and implemented in CSSE 488 and 489, culminating in a formal presentation of results at the end of the spring quarter. The three courses, CSSE 487, 488, and 489, must be taken as a continuous sequence and together, they fulfill the senior synthesis core requirement.
- CSSE 491 Special Topics 1 to 5**
- CSSE 492 Special Topics 1 to 5**
- CSSE 493 Special Topics 1 to 5**
- CSSE 496 Independent Study 1 to 5**
- CSSE 497 Directed Reading 1 to 5**
- CSSE 498 Directed Research 1 to 5**

Diagnostic Ultrasound

Jeff Pope, MEd, RDMS Chair

Objectives

The diagnostic ultrasound program prepares students for the profession of diagnostic medical sonography. Founded on a concentration in basic sciences, the program affords simultaneous opportunities for receiving a liberal arts education, as well as didactic and practical exposure to a range of ultrasound specialties. This approach leads not only to competence in the practice of sonography, but also to the development of future leaders in the field.

Degree Offered

Bachelor of Science in Diagnostic Ultrasound

Major Offered

Diagnostic Ultrasound

Accreditation

The diagnostic ultrasound program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Departmental Requirements

Individuals may apply for the major of diagnostic ultrasound as freshmen or transfer students from other colleges. Some supplementary materials are required with transfer student applications (please consult with department). Applicants are encouraged to participate in volunteer or paid health care related activities that promote the development of communication and interpersonal skills and provide an opportunity to evaluate their own suitability to work with patients and the public.

The major requirements as well as pathophysiology I and II and physics 350 are taken the third and fourth year of the program. Prior to the third year of the program all students will have completed the math and science prerequisites and all but fifteen (15) credits of the core requirements. Advancement to the third year courses also involves review and approval by department chair and advisers. The final year of the program is twelve (12) months of internship in a health care facility which is arranged by a clinical coordinator.

Bachelor of Science in Diagnostic Ultrasound

In order to earn the bachelor of science in diagnostic ultrasound degree, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.3, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses: 5

HIST 120 Origins of Western Civilization 5

HIST 121 Studies in Modern Civilization 5

ENGL 120 Masterpieces of Literature 5

PHIL 220 Philosophy of the Human Person 5

Social Science I 5

Social Science II (different discipline from Social Science I) 5

Theology and Religious Studies Phase II (200-299) 5

Ethics (upper division) (prefer Health Care Ethics) 5

Theology and Religious Studies Phase III (300-399) 5

Interdisciplinary satisfied by DIUS 370

Senior Synthesis satisfied by Ultrasound Internship

See detailed core curriculum information in this bulletin.

II. Major Requirements

Eighty-one credits in diagnostic ultrasound, including:

DIUS 330 Diagnostic Ultrasound I 5

DIUS 331 Diagnostic Ultrasound II 5

DIUS 332 Echocardiography 5

DIUS 333 Methods of Cardiac Evaluation 2

DIUS 334 Vascular Evaluation and Doppler 3

DIUS 335 Introduction to Instrumentation (lab) 1

DIUS 336 Research Design and Statistics 2

DIUS 355 Human Cross Section Anatomy 5

DIUS 370 Health Care Management and Professional Issues 3

DIUS 375 Ultrasound Instrumentation 4

Senior Synthesis: Ultrasound Internship*

DIUS 473 Clinical Orientation to Ultrasound* 10

DIUS 474 Clinical Experience in Ultrasound I* 24
(must be taken three times, 8 credits each)

DIUS 487 Ultrasound Seminar I* 8
(must be taken four times, 2 credits each)

DIUS 488 Basic Science of Ultrasound* 4
(must be taken twice, 2 credits each)

*A calendar-year internship is necessary for entry into professional employment and certification. This internship is a part of the degree and follows after the academic course requirements are met. Because of the professional nature of the program, qualities other than a good grade point average are required of internship candidates.

Please Note: Students must provide verification from a physician of good health and immunization prior to ultrasound-specific courses.

III. Other Major Department Requirements

BIOL 165 General Biology (majors level biology, not 100/101) 5

BIOL 200 Anatomy and Physiology I 5

BIOL 210 Anatomy and Physiology II 5

BIOL Elective (majors level biology, not 100/101) 5

CSSE 103 Introduction to Computers and Applications 5

NURS 204 Pathophysiology 5

PHYS 350 Physics of Diagnostic Ultrasound 3

Choose one of the following three options: 5 or 10

MATH 131 Calculus for Life Sciences (preferred) (5)

MATH 130 Elements of Calculus for Business (5)

MATH 134 and 135 Calculus and Analytic Geometry I and II (10)

Choose physics series a. or b.: 10

a. PHYS 105 Mechanics and Sound

PHYS 106 Electricity, Magnetism, and Thermodynamics

b. PHYS 200 Mechanics

PHYS 201 Electricity and Magnetism

Please Note: 1. MATH 120 and MATH 121 are prerequisites to PHYS 105 and MATH 131.

2. Contact department regarding preferred course sequence.

Diagnostic Ultrasound Courses

DIUS 330 Diagnostic Ultrasound I 5

DIUS 331 Diagnostic Ultrasound II 5

Brief review of acoustical physics, modes of display, uses and limitations of ultrasound. Pathophysiology of organ systems evaluated by ultrasound and their ultrasonic appearance. Prerequisites: BIOL 200, 210, DIUS 355, PHYS 350. (330 spring, 331 winter)

DIUS 332 Echocardiography 5

Anatomy, physiology, and pathological conditions of the adult and pediatric heart, their visualization and evaluation with real-time 2-D imaging, Doppler, and M-mode echocardiography. Prerequisites: BIOL 200, 210; DIUS 355; PHYS 350. (spring)

DIUS 333 Methods of Cardiac Evaluation 2

Integration of various modes of cardiac evaluation with echocardiography. Cardiac catheterization, ECG, auscultation, and cardiac pharmacology are covered in addition to other pertinent topics. The course serves to expand students' knowledge of cardiac physiology and pathophysiology. Corequisite or prerequisite: DIUS 332. (spring)

DIUS 334 Vascular Evaluation and Doppler 3

Introduction to applications of Doppler ultrasound for the detection and evaluation of vascular disease. Vascular anatomy, physiology, and pathology. Additional methods of evaluating vascular disease which complement Doppler data. Laboratory stresses hands-on experience with state-of-the-art ultrasound equipment and examination techniques. Prerequisite: DIUS 355, PHYS 350. (winter)

DIUS 335 Introduction to Instrumentation (Laboratory) 1

Integration of ultrasound physics, instrumentation, and principles with hands-on experience. Practice in modes of equipment operation and safety. Includes observation, data collection, interpretation, and evaluation of results and reporting. Course complements material presented in PHYS 350 and ultrasound courses. Pre- or corequisite; PHYS 350.

DIUS 336 Research Design and Statistics 2

Introduction to basic scientific writing, study design and critique, statistical analysis, and formulation and testing of hypotheses. Open to all qualified majors. (winter or spring)

DIUS 355 Human Cross Section Anatomy 5

Survey of cross section anatomy with emphasis on organs of body amenable to ultrasound diagnostic techniques. Prerequisites: BIOL 200 and 210. (fall)

- DIUS 370 Health Care Management and Professionalism Issues 3**
 Examination of ethical, legal, and psycho-social aspects of health care. Methods of budgeting, hiring, firing, and departmental administration. The sonographer's role in relation to the patient, physician, and staff. Fulfills interdisciplinary core requirement and is open to all qualified students. (fall)
- DIUS 375 Ultrasound Instrumentation 4**
 Understanding the operation of diagnostic ultrasound equipment, including B-mode, M mode, 2-D/real-time and Doppler systems, quality assurance, and safety. Prerequisite: PHYS 350. (winter)
- DIUS 391 Special Topics 1 to 5**
- DIUS 392 Special Topics 1 to 5**
- DIUS 393 Special Topics 1 to 5**
- DIUS 396 Directed Study 1 to 5**
- DIUS 473 Clinical Orientation to Ultrasound 10**
 Five days per week spent in a hospital environment learning patient care, practical medical ethics, observing and performing ultrasound procedures, and other diagnostic modalities. Prerequisite: Successful completion of all DIUS didactic courses and compliance with policy #81-3. Corequisite: DIUS 487.
- DIUS 474 Clinical Experience in Ultrasound I 8**
 Five eight-hour days per week in an approved ultrasound department of a hospital. Prerequisite: Successful completion of all DIUS didactic courses and compliance with policy #81-3. Program requires this course be taken three times for a maximum of 24 credits. Corequisite: DIUS 487.
- DIUS 487 Ultrasound Seminar I 2**
 Seminar to review and discuss cases performed by students and issues of professional interest. Seattle-based students meet one day every week. Students based outside Seattle area have projects assigned by correspondence, by the faculty and staff. Prerequisite: Clinical internship assignment. Program requires this course be taken four times for a maximum of eight credits. Corequisite: 473 or 474. Fulfills senior synthesis core requirement, together with DIUS 488.
- DIUS 488 Basic Science of Ultrasound 2**
 Project of professional interest assigned by faculty involving critical examination of current literature and research techniques. Prerequisite: Successful completion of all DIUS didactic courses and compliance with policy #81-3. Program requires this course be taken for a maximum of four credits. Corequisite with second- and third-quarter internship, DIUS 474. Fulfills senior synthesis requirement, together with DIUS 487.

Electrical Engineering

Paul Neudorfer, PhD, Chair

Objectives

Electrical engineering is concerned with the use of electrical energy for the benefit of society. The profession of electrical engineering is scientifically based and design oriented. As such, its practice draws heavily upon the areas of mathematics, physics, and computer science as well as other branches of engineering and natural science.

The program strives to provide a broad foundation that will prepare graduates for a productive lifelong career in any of the various sub-fields of electrical engineering. The Electrical Engineering Department is teaching oriented and offers an undergraduate program that offers an integrated, contemporary perspective of the electrical engineering profession. The department's goals are contained within the following mission statement and related objectives:

Mission Statement

Within the rich tradition of Jesuit education, it is the mission of the Electrical Engineering Department to teach and prepare liberally educated, socially responsible, articulate, and skilled engineers for leadership in electrical engineering and related fields.

Program Objectives

The department strives to:

1. Provide competence in mathematics and natural and engineering sciences which are the technical foundation of the profession.
2. Ensure that all students have a solid foundation in the core areas of circuits, linear systems, electronics, and digital and computer systems and to provide students with ample opportunity to explore advanced topics in electrical engineering through electives.
3. Give students significant exposure to the humanities, social sciences, and fine arts in order to broaden their appreciation of the world and give them an understanding of the role of engineering in the larger society.
4. Give students significant opportunities to apply engineering principles and tools to open-ended design problems.
5. Instill in students an appreciation of the need to be life-long learners in a rapidly-changing field.
6. Develop in students and open minded but critical approach to the analysis of problems, keeping in mind the technical, professional, societal, and ethical dimension to any solution.
7. Develop oral and written communications skills that allow one to be an effective advocate for one's point of view.
8. Encourage the initiative and flexibility needed to function well either individually or as a member of a team when multidisciplinary skills must be brought to bear on a problem.
9. Offer our students an up-to-date program that reflects rapidly-changing technology and the contemporary standards of engineering practice.

Degree Offered

Bachelor of Science in Electrical Engineering

Majors Offered

Electrical Engineering

Electrical Engineering with specialization in computer engineering

Minor Offered

Electrical Engineering

Departmental Requirements

In addition to individual course prerequisites, departmental candidacy in one of the engineering departments is required for entry into 300 and 400 level courses. Candidacy is achieved by successfully completing all required 100 and 200 level CSSE, EEGR, MMEGR, MATH, and PHYS courses and ENGL 110 with a combined grade point average of 2.50 or better. Only courses graded C (2.0) or better may be transferred from other institutions. Once enrolled in the department, 300 and 400 level courses may be transferred only with permission.

The BSEE degree is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Electrical Engineering Curricular Blocks

Courses taken to fulfill requirements toward the Bachelor of Science in Electrical Engineering degree are grouped into four interrelated curriculum blocks. The foundations block includes courses in the natural sciences, mathematics, computer science, and introductory engineering. The electrical engineering fundamentals block includes the 100, 200, and 300 level electrical engineering courses that are required of all electrical engineering students. There are actually two fundamentals blocks – one for those who choose the major 'electrical engineering' and one for those who choose 'electrical engineering with specialization in computer engineering'. The fundamentals block provides the basis for all advanced studies in the field. The advanced electrical engineering block includes elective courses and the three-quarter senior design sequence. The advanced block allows students an opportunity to explore their individual interests within the field. Finally, the university core exposes students to a broad range of the humanities, social sciences, and fine arts. Please refer to the Electrical Engineering Student Handbook, available from the department, for additional information.

Bachelor of Science in Electrical Engineering

In order to earn the Bachelor of Science in Electrical Engineering degree with a major in electrical engineering students must complete a minimum of 180 quarter credits with cumulative and major/department grade point averages of 2.5 or greater. Courses must include the following:

I. Core Curriculum Requirements

Students majoring in electrical engineering must complete a minimum of 50 credits in the core curriculum, including:

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Introduction to Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Choose one of the following two courses:		5
Social Science II		
FINR 120 or approved fine arts alternate		
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied by EEGR 487, 488, and 489.		
Senior synthesis satisfied by EEGR 487, 488, and 489.		

See detailed core curriculum information elsewhere in this bulletin.

II. Major Requirements

A minimum of sixty-eight credits of electrical engineering, including:

EEGR 100	Introduction to Electrical Engineering	3
EEGR 201	Digital Operations and Computation	4
EEGR 210	Electrical Circuits I	5
EEGR 211	Electrical Circuits II	4
EEGR 227	Electrical Circuits Laboratory	2
EEGR 312	Linear System Analysis	4
EEGR 317	Signals and Systems Laboratory	2
EEGR 320	Electronics I	4
EEGR 321	Electronics II	4
EEGR 328	Electronic Circuits Laboratory	2
EEGR 487	Engineering Design I	3
EEGR 488	Engineering Design II	4
EEGR 489	Engineering Design III	3
EEGR	Upper division electives (five lecture courses)	20
EEGR	Upper division electives (two laboratories)	4

III. Other Major Department Requirements

CSSE 151	Fundamentals of Computer Science I	5
MMEGR 181	Innovative Design	2
MATH 134	Calculus and Analytical Geometry I	5
MATH 135	Calculus and Analytical Geometry II	5
MATH 136	Calculus and Analytical Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 244	Prob. and Statistics for the Sciences and Engineering	5
PHYS 200	Mechanics	5

PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics, and Thermodynamics	5
PHYS 330	Electromagnetic Field Theory	5
Elective	Science/Engineering	5

Bachelor of Science in Electrical Engineering Major in Electrical Engineering with a Specialization in Computer Engineering

In order to earn the bachelor of science in electrical engineering degree with a specialization in computer engineering, students must complete a minimum of 180 quarter credits with cumulative and departmental/major grade point averages of 2.5 or greater. Courses must include the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Choose one of the following two courses:		5
Social Science II		
FINR 120 or approved fine arts alternative		
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied by EEGR 487, 488, and 489.		
Senior Synthesis satisfied by EEGR 487, 488, and 489.		
See Detailed core curriculum information elsewhere in this bulletin.		

II. Major Requirements

COMPE 100	Introduction to Computer Engineering	3
CSSE 151	Fundamentals of Computer Science I	5
CSSE 152	Fundamentals of Computer Science II	5
CSSE 250	Data Structures	5
CSSE 440	Operating Systems	5
EEGR 201	Digital Operations and Computation	4
EEGR 210	Electrical Circuits I	5
EEGR 211	Electrical Circuits II	4
EEGR 227	Electrical Circuits Laboratory	2
EEGR 320	Electronics I	4
EEGR 321	Electronics II	4
EEGR 328	Electronic Circuits Laboratory	2

Choose one of the following two courses:

CSSE 252	Computer Systems and Assembler Language	5
EEGR 304	Microprocessor Design	4
COMPE*	Electives	14-17
COMPE*	Elective Lab	2
COMPE 487	Engineering Design I	3
COMPE 488	Engineering Design II	4
COMPE 489	Engineering Design III	3

*COMPE electives consist of electrical engineering and computer science courses approved by the computer engineering program director. These include EEGR 331, 404, 405, 440, 461, and CSSE 380 and 444. Electives must be selected to ensure that the student has the required 180 credits for graduation.

III. Other Program Requirements

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 222	Discrete Structures	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 244	Prob. and Statistics for the Sciences and Engineering	5
PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics and Thermodynamics	5
MMEGR 181	Innovative Design	2

Minor in Electrical Engineering

To earn a minor in electrical engineering, students must complete a minimum of 30 credits from among the following:

EEGR 100	Introduction to Electrical Engineering	3
EEGR 201	Digital Operations and Computation	4
EEGR 210	Electrical Circuits I	5
EEGR 211	Electrical Circuits II	4
EEGR 227	Electrical Circuits Laboratory	2
EEGR 312	Linear System Analysis	4
EEGR 317	Signals and Systems Laboratory	2
EEGR 320	Electronics I	4
EEGR 321	Electronics II	4
EEGR 328	Electronic Circuits Laboratory	2

See policy for minors on p. 46.

Electrical Engineering Courses

- EEGR 100 Introduction to Electrical Engineering 3**
Investigation of some major themes of electrical engineering at the introductory level. Survey of concepts and subfields of the profession through discussion and experiential learning. Suitable for students wishing to explore the possibility of electrical engineering as a career. Open to all university students. (fall, winter)
- EEGR 201 Digital Operations and Computation 4**
Digital processing of information and data, number-systems, Boolean algebra; design of hardware for registers, counting, and arithmetic operations; organization of computers, storage, and input/output. Introduction to simple logic circuits. Elementary concepts of programming, assembly language, and computer simulation. Open to all university students. (fall, winter)
- EEGR 210 Electrical Circuits I 5**
Fundamental concepts and units, Kirchoff's laws, mesh and node analysis, equivalent circuits, linearity and superposition; first and second order circuits; natural and forced responses, initial conditions; sinusoidal analysis. Prerequisite: PHYS 201. Corequisite: MATH 233. (winter, spring) (formerly 4 credits)
- EEGR 211 Electrical Circuits II 4**
Phasors and impedance; Laplace transforms; system functions and the s-plane; frequency response description, Bode diagrams; AC power; two-port analysis; introduction to the digital computer in circuit analysis and design. Prerequisite: EEGR 210. (fall, spring) (formerly EEGR 311)
- EEGR 227 Electrical Circuits Laboratory 2**
A laboratory covering principles of electrical and electronic circuits. Test instrumentation and general laboratory practice. Technical communications. The course culminates in a class-wide team project. A one-hour lecture and one four-hour laboratory per week. Corequisite: EEGR 211 (fall, spring) (formerly EEGR 327)
- EEGR 296 Directed Study 1 to 5**
- EEGR 304 Microprocessor Design 4**
Design of digital components and systems that employ microprocessors. Assembly language programming, peripheral access, and memory, interfacing the microprocessor to external systems. Three lectures and one four-hour laboratory per week. Prerequisites: EEGR 201 and programming experience or permission.
- EEGR 312 Linear System Analysis 4**
Linear systems and response type classifications. Time-domain and frequency-domain signal representations. System functions. Impulse response. Convolution. Fourier series and transforms. Signal spectra. Prerequisite: EEGR 211, MATH 234, and departmental candidacy. (fall, winter)
- EEGR 315 Elements of Electrical Engineering 5**
An introduction to major areas of electrical engineering. Topics are selected from basic circuit theory; linear systems; electronics; digital logic; electromagnetics; and energy conversion and power. Intended for engineering and natural science students not majoring in electrical engineering; Prerequisite: MATH 234 and PHYS 201. (winter)

- EEGR 317 Signals and Systems Laboratory 2**
Signal acquisition and analysis. Spectral content of signals and frequency response behavior of systems. Use of spectral and network analyzers. Use of MATLAB and other engineering analysis software. A one-hour lecture and one four-hour laboratory session per week. Prerequisite: EEGR 227. Corequisite: EEGR 312. (fall, winter)
- EEGR 320 Electronics I 4**
Analysis and design of elementary electronic circuits including linear and non-linear circuits, and operational amplifiers. Introduction to bipolar and field effect devices and characteristics. Prerequisite: EEGR 211 and departmental candidacy. (fall, winter)
- EEGR 321 Electronics II 4**
Continuation of EEGR 320. Transistor amplifiers, frequency response, feedback, analog integrated circuits, introduction to oscillators. Prerequisite EEGR 320. (winter, spring)
- EEGR 328 Electronic Circuits Laboratory 2**
Continuation of EEGR 227. Investigation of electronic circuits focusing on the design of a discrete component operational amplifier. Prerequisite: EEGR 227. Corequisite: EEGR 321. (winter, spring)
- EEGR 331 Distributed Systems 4**
Analysis of distributed systems; steady-state and transient analysis of loss-less lines, lossy lines; waveguides. Prerequisite: EEGR fundamentals block.
- EEGR 360 Communication Systems 4**
Analysis and design of signal transmission systems that include amplitude, phase, frequency, and pulse modulation. Subsystem synthesis and design with comparative analysis. Communication in the presence of noise. Prerequisite: EEGR fundamentals block.
- EEGR 391 Special Topics 1 to 5**
- EEGR 392 Special Topics 1 to 5**
- EEGR 393 Special Topics 1 to 5**
- EEGR 403 Digital Signal Processing 4**
Linear, time invariant, discrete systems; finite moving average and recursive digital filters; Z-transform; discrete Fourier transform; fast Fourier transform. Prerequisite: EEGR 312.
- EEGR 404 Introduction to VLSI Circuit Design 4**
An introduction to the design of very large scale integrated (VLSI) circuits using silicon CMOS process technology and CAD software. Aspects of manufacturing, design, and testing are covered in lecture. The laboratory introduces students to professional-level software and culminates in a major circuit design. Three lectures and one three-hour laboratory per week. Prerequisite: EEGR fundamentals block.
- EEGR 405 Advanced Digital Design 4**
Microprocessor-based systems design procedures; LSI circuit specifications and interconnect design; programmable logic; logic simulation; prototype construction; system debug techniques; hands-on design carried out in teams. Prerequisites: EEGR 210 and EEGR 304.
- EEGR 414 Active Networks and Filters 4**
Design of active filters. Operational amplifier circuits. Approximation of frequency response characteristics. Sensitivity. Frequency transformations. Active two-port networks. Simulation of passive elements. Switched capacitor filters. Prerequisite: EEGR 312.

- EEGR 424 Power Electronics 4**
Basic topologies and operating principles of switching power converters. Half-wave, bridge, and polyphase rectifier circuits. Phase control converters. Output control and dynamic models. Prerequisite: EEGR fundamentals block.
- EEGR 432 Microwave Systems 4**
Propagation of electromagnetic waves and interaction with materials, guided waves, and passive and active devices, microstrip and integrated circuits. Prerequisite: EEGR fundamentals block.
- EEGR 433 Introduction to Antennas 4**
Electromagnetic waves and radiating systems used in telecommunications. Software simulation of antenna radiation patterns. Frequency spectra used in modern communications and their effect on antenna design. Prerequisite: EEGR fundamentals block.
- EEGR 440 Control Systems 4**
Fundamentals of classical and modern system theory; analysis and design of closed-loop systems with emphasis on stability and transient response using Nyquist, Bode, root-locus, and state-space techniques. Prerequisite: EEGR fundamentals block.
- EEGR 450 Electromechanical Energy Conversion 4**
Electromechanical energy conversion principles and design. Application and details of electromechanical devices, such as relays, transformers, and rotating machinery. Prerequisite: EEGR fundamentals block.
- EEGR 451 Power Systems 4**
Analysis of power systems: symmetrical components, power system parameters, steady-state operation, symmetrical and non-symmetrical faults. Prerequisite: EEGR 450.
- EEGR 457 Electromechanical Energy Conversion Laboratory 2**
A laboratory covering the principles and practice of electromechanical energy conversion devices. Corequisite: EEGR 450.
- EEGR 461 Data Communications 4**
An introduction to the concepts and methods of data communication. Systems, protocols, and controls used in data transfer. Media employed for data transmission and multiplexing techniques. Long-range and local networks used in data and computer communications. Prerequisite: EEGR 201 or permission.
- EEGR 462 Modern Optics 4**
Introduction to modern optics consisting of ray optics; scalar wave optics; diffraction; interferometry; vector wave optics and polarization; Gaussian beam optics; Fourier optics, including image processing, spatial filtering, and holography; optical waveguides and fibers; optical resonators; laser amplifiers and systems; semiconductor lasers and detectors; optical switching and computing. Optional labs in holography and fiber optics. Prerequisites: EEGR fundamentals block or PHYS 205 and PHYS 330.

EEGR 463	Wireless Communications Systems	4
An introduction to issues and problems associated with modern wireless communications systems. Radio wave systems. Multipath and fading. Frequency planning. Cellular communications. Registration. Prerequisite: EEGR fundamentals block.		
EEGR 467	Communications Laboratory	2
A laboratory covering basic principles of encoding, modulation, and transmission of electronic signals. One-hour lecture and one four-hour laboratory per week. Corequisite: EEGR 360.		
EEGR 487	Engineering Design I	3
EEGR 488	Engineering Design II	4
EEGR 489	Engineering Design III	3
A year-long capstone team design project that draws upon all of the student's previous experience, both technical and non-technical. Projects require students to investigate and apply concepts not covered in coursework and to master engineering tools needed to complete the assigned task. Particular emphasis is placed upon project organization and management, principles of engineering design, oral and written communication, and professionalism and ethics. In EEGR 487, student teams are formed and industrially-sponsored design problems are assigned. Project proposals are written, critiqued, and presented. In EEGR 488 and 489, problem solutions are developed and implemented, culminating in a formal presentation of results. In addition to regularly-scheduled lectures, students are expected to devote significant time to design team activities. The three courses must be taken as a continuous sequence. The Engineering Design sequence fulfills the interdisciplinary and synthesis requirements of the University Core. Prerequisite: advanced junior or senior standing in engineering. (487, fall; 488, winter; 489, spring)		
EEGR 491	Special Topics	1 to 5
EEGR 492	Special Topics	1 to 5
EEGR 493	Special Topics	1 to 5
EEGR 496	Independent Study	1 to 5
EEGR 497	Directed Reading	1 to 5
EEGR 498	Directed Research	1 to 5
Independent work by student on topic of mutual interest to student and an instructor. Enrollment is limited and open only to students who have agreed upon a proposed topic or course of study with the instructor. May be used as an advanced elective with departmental permission.		

Computer Engineering Courses

COMPE 100	Introduction to Computer Engineering	3
Investigation of major themes of computer engineering at the introductory level. Survey of the main concepts and subfields of the profession through discussion and experiential learning. Suitable for students wishing to explore the possibility of engineering as a career. Open to all university students. (fall, winter)		
COMPE 487	Engineering Design I	3

General Science

Mara Rempe, PhD, Director

Objectives

The general science program provides special opportunities to students interested in interdisciplinary fields, such as ecology, environmental science, earth science, and pre-medical, pre-dental, or preveterinary studies. The program provides a broad background in the basic sciences. Two tracks are available that allow students to specialize in different interdisciplinary areas: preprofessional and environmental science. Other curricula that do not fit these tracks can be customized for each student in consultation with the adviser. The prime objective is to enable students to gain a better understanding of the human ramifications of science and technology and to help them think realistically and creatively about intellectual, moral, and social issues related to science and technology.

Degree Offered

Bachelor of Science in General Science

Major Offered

General Science

Specializations Offered

Preprofessional
Environmental Science

Bachelor of Science in General Science

In order to earn the bachelor of science in general science degree with a major in general science, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses

HIST 120	Origins of Western Civilization	5
HIST 121	Studies in Modern Civilization	5

ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis	.....	3

See detailed core curriculum information in this bulletin.

II. Major Requirements

Ninety credits in mathematics, science, and computer science including:

- *Primary concentration 30
- *Secondary concentration 20

(May not include introductory mathematics and science courses)

- Science Electives (see department) 0 to 20

Courses used to satisfy the following requirements may, in some cases, be applied toward the primary or secondary concentrations.

- CSSE Elective 5

Choose two courses from the following five: 10

- BIOL 165 General Biology I
- BIOL 166 General Biology II
- BIOL 167 General Biology III
- BIOL 200 Anatomy and Physiology I
- BIOL 210 Anatomy and Physiology II

Choose option a. or b.: 10

- a. CHEM 101 Introductory General Chemistry
- CHEM 102 Introductory Organic and Biochemistry
- b. CHEM 121 General Chemistry I
- CHEM 131 General Chemistry Lab I
- CHEM 122 General Chemistry II
- CHEM 132 General Chemistry Lab II

Choose one set of two courses from option a., b., or c.: 10

- a. MATH 120 Precalculus: Algebra
- MATH 131 Calculus for Life Sciences (note: MATH 121 is corequisite)
- b. MATH 118 College Algebra for Business
- MATH 130 Elements of Calculus for Business
- c. MATH 134 Calculus and Analytic Geometry I
- MATH 135 Calculus and Analytic Geometry II

Choose one set of two courses from option a. or b.: 10

- a. PHYS 105 Mechanics and Sound
- PHYS 106 Electricity, Magnetism, and Thermodynamics
- b. PHYS 200 Mechanics
- PHYS 201 Electricity and Magnetism

Please Note: 1. At least 15 credits of the 90 general science required credits must be from 300- or 400-level classes. An additional 10 credits must be from 300-level, 400-level, or approved 200-level courses. This may require prerequisites beyond the minimal degree requirements. PSYCH 330 is allowed for upper division science credit. The approved 200-level courses are CHEM 231/241, CHEM 232/242, MATH 232, MATH 233, MATH 234, PHYS 202, PHYS 204, PHYS 205, and BIOL 240. 2. No more than 15 credits from this major will be counted toward any minors. 3. Students must earn at least a C- in 100-200-level science and mathematics courses that apply to the major.

*Fields allowed: biology, chemistry, diagnostic ultrasound, engineering (all engineering courses are one field), mathematics, physics, computer science and interdisciplinary science. See department for approved science electives.

Bachelor of Science in General Science Preprofessional Specialization

This track is for students interested in preparing for post-graduate programs in professions such as medicine, dentistry, pharmacy, osteopathic medicine, and veterinary medicine. In order to earn the bachelor of science in general science degree in the preprofessional track, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Social Science II (different discipline from Social Science I)		5
Theology and Religious Studies Phase II (200-299)		5
Ethics (PHIL 352 recommended)		5
Theological and Religious Studies Phase III (300-399)		5
Interdisciplinary		3 to 5
Preprofessional Senior Synthesis		3

II. Major Requirements

Ninety credits in mathematics, science, and computer science, including:

BIOL 165	General Biology I	5
BIOL 166	General Biology II	5
BIOL 167	General Biology III	5
Choose any three among the following six biology courses:		15
BIOL 240	Genetics	
BIOL 300	Microbiology	
BIOL 310	Comparative Vertebrate Embryology	
BIOL 325	Comparative Anatomy of the Vertebrates	
BIOL 388	Animal Physiology	
BIOL 485	Cell Physiology	
CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry Lab II	1
CHEM 123	General Chemistry III	4
CHEM 133	General Chemistry Lab III	1
CHEM 335	Organic Chemistry I	3
CHEM 345	Organic Chemistry Lab I	2
CHEM 336	Organic Chemistry II	3
CHEM 346	Organic Chemistry Lab II	2
CHEM 337	Organic Chemistry III	4

CHEM 347	Organic Chemistry Lab III	2
CSSE	Elective	5
Choose series a. or b.:		15
a.	PHYS 105 Mechanics and Sound	
	PHYS 106 Electricity, Magnetism, Thermodynamics	
	PHYS 107 Survey of Modern Physics	
b.	PHYS 200 Mechanics	
	PHYS 201 Electricity and Magnetism	
	PHYS 202 Waves, Optics, and Thermodynamics	
Choose option a., b., or c.:		10
a.	MATH 120 Precalculus: Algebra	
	MATH 131 Calculus for Life Sciences (MATH 121 is corequisite)	
b.	MATH 131 Calculus for Life Sciences (MATH 121 is corequisite)	
	PSYC 201 Statistics I	
c.	MATH 134 Calculus and Analytic Geometry I	
	MATH 135 Calculus and Analytic Geometry II	

Please Note: 1. Strongly recommend taking CHEM 454, CHEM 455, and CHEM 456 as electives. 2. Students interested in preparing for professions such as chiropractic medicine, podiatry, and physical therapy may have adjustments made in these requirements. 3. No more than 15 credits from this major will be counted toward any minors. 4. Students must earn at least a C- in 100-200-level science and mathematics courses that apply to the major.

Bachelor of Science in General Science with Specialization in Environmental Science

In order to earn the bachelor of science in general science degree in the environmental science track, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not ECON or PLSC)	.....	5
Choose one of the following two courses for Social Science II:		5
ECON 271	Principles of Economics-Macro	
PLSC 205	Introduction to American Politics	
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (TRST 347 recommended)		5
Interdisciplinary		3 to 5
Environmental Senior Synthesis		3

II. Major Requirements

Ninety-five credits in mathematics, science, and computer science including:

BIOL 165	General Biology I	5
BIOL 166	General Biology II	5
BIOL 167	General Biology III	5
BIOL 470	General Ecology	5

Choose any two among the following biology courses: 10

(At least one must be a 300-level course)

BIOL 235	Invertebrate Zoology	
BIOL 252	Taxonomy of Flowering Plants	
BIOL 275	Marine Biology	
BIOL 385	Plant Physiology	
BIOL 388	Animal Physiology	
Summer field studies; i.e., Aquatic Ecology, Marine Ecology (5)		

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry Lab II	1
CHEM 123	General Chemistry III	4
CHEM 133	General Chemistry Lab III	1
CHEM 231	Fundamental Organic Chemistry I	4
CHEM 241	Fundamental Organic Chemistry Lab I	1
CHEM 232	Fundamental Organic Chemistry II	4
CHEM 242	Fundamental Organic Chemistry Lab II	1
CHEM 319	Quantitative Analysis	5
CSSE	Elective	5
ISSC 120	Introduction to Geology	5

Choose one of the following two courses: 5

PSYC 201	Statistics I	
MATH 244	Probability and Statistics for the Sciences and Engineering	

Choose series a. or b.: 10

a. PHYS 105	Mechanics and Sound	
PHYS 106	Electricity, Magnetism, and Thermodynamics	
b. PHYS 200	Mechanics	
PHYS 201	Electricity and Magnetism	

Choose series a. or b.: 10

a. MATH 120	Precalculus: Algebra	
MATH 131	Calculus for Life Sciences (MATH 121 is a corequisite)	
b. MATH 134	Calculus and Analytic Geometry I	
MATH 135	Calculus and Analytic Geometry II	

Please Note: 1. No more than 15 credits from this major will be counted toward any minors.
2. Students must earn at least a C- in 100-200-level science and mathematics courses that apply to the major.

Teacher Education

The teacher preparation program is a graduate-level program only. Students interested in teaching should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Interdisciplinary Science Courses

- ISSC 110 Science, Technology, and Society 5**
 The study of the nature and structure of science and technology, the interactions of science and technology, and the impact of science and technology on society. Four hours of lecture/discussion and three laboratory hours per week. Prerequisite: MATH 107 or 110 or above. (winter, spring)
- ISSC 120 Introduction to Geology 5**
 Study of the principles of modern geology, with consideration of both the physical and historical aspects. Topics will include modern plate theory, tectonics, uniform processes, and the fossil record. Four hours of lecture and three hours of laboratory per week. Arranged weekend field trips. Prerequisite: MATH 107 or 110 or above.
- ISSC 191 Special Topics 1 to 5**
- ISSC 192 Special Topics 1 to 5**
- ISSC 193 Special Topics 1 to 5**
- ISSC 202 To See the Light 5**
 A hands-on approach to the nature and uses of light: the many faces of light as seen by philosophers, artists, and scientists; theories of color; physiology and psychology of perception, light, and color in art; laser optics; camera systems; current optical technology; student light projects. Three hours of lecture/discussion and one four-hour laboratory/field trip per week. Prerequisite: MATH 107 or 110 or above.
- ISSC 205 Biophysical Principles 5**
 Interrelationships between biology, earth science, and physical science as applied to the teaching of elementary level science. Credits not applicable for biology major. Three lecture and four laboratory hours per week. Prerequisite: MATH 107 or 110 or above.
- ISSC 207 Air and Water 5**
 Dynamics of air and water systems. Consideration of the causes and control of air and water pollution. Monitoring and standards for clean air and water. The role of technology in the deterioration of air and water quality. Four hours of lecture and three hours of laboratory per week. Prerequisite: MATH 107 or 110 or above. (spring)
- ISSC 208 Sun, Food, and People 5**
 Introduction to ecology. The flow of solar energy through the ecosystem and the effect of this on food production. The food chain. The supply and demand of food. Pesticides and fertilizers. Past, present, and future trends in human population. Not a core lab science. Prerequisite: MATH 107 or 110 or above.
- ISSC 209 Energy and Mineral Resources 5**
 The supply, demand, and resources of energy and minerals. Patterns of energy use. Fossil fuels, water power, atomic energy, their use and abuse. Renewable forms of energy. Conservation. Program for the future. Mineral resource depletion, an embryonic crisis. Solid waste and recycling. Not a core lab science. Prerequisite: MATH 107 or 110 or above.
- ISSC 291 Special Topics 1 to 5**
- ISSC 292 Special Topics 1 to 5**
- ISSC 293 Special Topics 1 to 5**
- ISSC 296 Directed Study 1 to 5**

- ISSC 310 Evolution: Development of a Theory 5**
Basic statements and ideas of evolutionary theories from an interdisciplinary perspective. This will include both a historical perspective and a consideration of modern debates. Satisfies core interdisciplinary but is not a core lab science. Prerequisites: ISSC 110 and one laboratory science course; or two science courses, one with laboratory experience.
- ISSC 315 Mineralogy 5**
Examination of the many and varied forms that minerals take in the earth's crust, their formation, chemical composition, and environmental considerations. Four hours of lecture and three hours of laboratory per week. Prerequisites: ISSC 120, MATH 120, CHEM 121, 131, 122, 132.
- ISSC 320 Geology and Mineralogy of the Pacific Northwest 2**
The general geologic setting and basic mineralogy of the Northwest. Weekend field trips are in conjunction with the field biology course. Prerequisites: two laboratory science courses.
- ISSC 330 Field Biology of Washington 2**
Life zones, habitats, plants, and animals of special interest in the state. Weekend field trips are in conjunction with the geology and mineralogy course. Prerequisites: two laboratory science courses.
- ISSC 401 The Human Response to Science and Technology 5**
A comparative-historical approach to the scientization of culture and its contemporary and projected consequences; critical evaluation of competing claims about science and technology as enlightening allies of human progress; a personal search for appropriate intellectual and ethical perspectives on science as a way of knowing and on technology as a way of living. Seminar format; guest lectures; small-group paper conferences; student-led seminars. Not a core lab science. Prerequisites: junior standing or higher, PHIL 220; HIST 120 or 121.
- ISSC 480 Interdisciplinary Core Course 3 to 5**
Title and content vary.
- ISSC 481 To Feed the World 5**
An interdisciplinary approach to the history, production, and distribution of food from the perspectives of paleontology, anthropology, biology, chemistry, and the social sciences; modes of scientific examination and interpretation are explored; interrelationships of science, technology, and human needs are emphasized. Active participation by students: lectures, movies, and small group discussions. Community service project required. Prerequisite: Phase II of core. (formerly ISC 301)
- ISSC 491 Special Topics 1 to 5**
- ISSC 492 Special Topics 1 to 5**
- ISSC 493 Special Topics 1 to 5**
- ISSC 496 Independent Study 1 to 5**
- ISSC 497 Directed Reading 1 to 5**
- ISSC 498 Directed Research 1 to 5**

Mathematics

Janet E. Mills, PhD, Chair

Objectives

The Mathematics Department offers three distinct programs. The first two are very flexible programs that provide for work in a secondary field and lead to either the bachelor of arts or the bachelor of science degree. The third, leading to the bachelor of science in mathematics degree, prepares the student for advanced study and professional work in mathematics. For this third degree program the student chooses either a pure mathematics or an applied mathematics specialization.

Degrees Offered

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Science in Mathematics

Major Offered

- Mathematics
- Mathematics, Specialization in Applied Mathematics
- Mathematics, Specialization in Pure Mathematics

Minor Offered

- Mathematics

Bachelor of Arts Major in Mathematics

In order to earn the bachelor of arts degree with a major in mathematics, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	5
HIST 121	Studies in Modern Civilization	5
ENGL 120	Masterpieces of Literature	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5

Senior Synthesis satisfied by MATH 487

See detailed core curriculum information in this bulletin.

II. Major Requirements

Forty-eight credits of mathematics, including:

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 487	Senior Synthesis	3
MATH	Electives (300 or above)	10

Choose one of the following two courses:

MATH 222	Discrete Structures
MATH 310	Introduction to Advanced Mathematics

Choose one of the following two courses:

MATH 411	Introduction to Abstract Algebra I
MATH 431	Introduction to Real Analysis I

III. Other Major Department Requirements

CSSE	Elective	5
Electives	Computer science, economics, psychology, and/or natural science approved by adviser	15

Please Note: All prerequisites for 300- and 400-level courses must be graded C (2.0), or better.

Bachelor of Science Major in Mathematics

In order to earn the bachelor of science degree with a major in mathematics, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses:

HIST 120	Origins of Western Civilization
HIST 121	Studies in Modern Civilization

ENGL 120	Masterpieces of Literature	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5

Ethics (upper division)	5
Theology and Religious Studies Phase III (300-399)	5
Interdisciplinary	3 to 5
Senior Synthesis satisfied by MATH 487	
See detailed core curriculum in this bulletin	

II. Major Requirements

Fifty-eight credits of mathematics, including:

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 487	Senior Synthesis	3
MATH	Electives (300 or above)	10

Choose one of the following two courses:	5
MATH 222	Discrete Structures
MATH 310	Introduction to Advanced Mathematics

Choose one of the following three courses:	5
MATH 351	Probability
MATH 361	Applied Mathematics I
MATH 371	Introduction to Numerical Methods

Choose two of the following five courses:	10
MATH 411	Introduction to Abstract Algebra I
MATH 412	Introduction to Abstract Algebra II
MATH 431	Introduction to Real Analysis I
MATH 432	Introduction to Real Analysis II
MATH 461	Applied Mathematics II

III. Other Major Department Requirements

CSSE Elective	5	
Electives	Computer science, engineering, natural science, and/or social science approved by adviser	25

Please Note: All prerequisites for 300 - 400-level courses must be graded C (2.0), or better. Under special circumstances, with approval from the department chair, MATH 244 may be substituted for MATH 351.

Bachelor of Science in Mathematics

In order to earn the bachelor of science in mathematics degree with a major in mathematics, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.50. Students must choose one of the following two options:

Pure Mathematics Specialization

This specialization should be chosen by any student planning to pursue graduate studies in pure or applied mathematics.

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis satisfied by MATH 487		

See detailed core curriculum in this bulletin

II. Major Requirements

Sixty-eight credits in mathematics, including:

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 411	Introduction to Abstract Algebra I	5
MATH 412	Introduction to Abstract Algebra II	5
MATH 431	Introduction to Real Analysis I	5
MATH 432	Introduction to Real Analysis II	5
MATH 487	Senior Synthesis	3
MATH	Electives (numbered 222 or above)	10
Choose one of the following two courses:		5
MATH 222	Discrete Structures	
MATH 310	Introduction to Advanced Mathematics	
Choose one of the following four courses:		5
MATH 244	Fundamentals of Probability and Statistics	
MATH 351	Probability	
MATH 361	Applied Mathematics I	
MATH 371	Introduction to Numerical Methods	

III. Other Major Department Requirements

CSSE	Elective	5
Electives	Computer science, economics and/or natural science approved by adviser	15

Please Note: 1. In certain circumstances, with approval of the chair, 10 credits of upper-division work in computer science or a physical science may be substituted for 10 credits in mathematics.
2. All prerequisites for 300- and 400-level courses must be graded C (2.0), or better.

Applied Mathematics Specialization

This specialization is appropriate for students planning to pursue a career in industry.

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
Lab Science	.....	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Social Science II (different discipline from Social Science I)	.....	5
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division)	.....	5
Theology and Religious Studies Phase III (300-399)	.....	5
Interdisciplinary	.....	3 to 5
Senior Synthesis satisfied by MATH 487		

See detailed core curriculum information in this bulletin.

II. Major Requirements

Sixty-eight credits in mathematics, including:

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 361	Applied Mathematics I	5
MATH 461	Applied Mathematics II	5
MATH 487	Senior Synthesis	3
MATH	Elective (222 or above)	5

Choose one of the following two courses:

MATH 222	Discrete Structures
MATH 310	Introduction to Advanced Mathematics

Choose two of the following four courses:

(Cannot take both MATH 244 and MATH 351)

MATH 244	Fundamentals of Probability and Statistics
MATH 331	Introduction to Complex Variables
MATH 351	Probability
MATH 371	Introduction to Numerical Methods

Choose two of the following four courses:

MATH 411	Introduction to Abstract Algebra I
MATH 412	Introduction to Abstract Algebra II
MATH 431	Introduction to Real Analysis I
MATH 432	Introduction to Real Analysis II

III. Other Major Department Requirements

PHYS 200	Mechanics	5
CSSE	Elective	5
Electives	Computer science, economics, and/or natural science approved by adviser	10

Please Note: 1. In certain circumstances, with approval of the chair, 10 credits of upper division work in computer science or a physical science may be substituted for 10 credits in mathematics. 2. All prerequisites for 300- and 400-level courses must be graded C (2.0), or better.

Minor in Mathematics

In order to earn a minor in mathematics, students must complete 30 credits in mathematics, including:

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
	Approved mathematics courses (222 or higher)	15

See policy for minors on p. 46.

Advanced Placement in Calculus

Students who have completed a college-level course in calculus in high school and have taken the advanced placement test in calculus of the College Entrance Examination Board may petition the department for placement on the basis of their test results. Advanced placement and credit may be granted to students whose test scores are 3 or above. Advanced placement may also be obtained through departmental testing.

Teacher Education

The teacher preparation program is a graduate-level program only. Students planning to teach in elementary or secondary schools should contact the Master in Teaching program at (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for admission.

Proper Sequence for Taking Courses

The normal sequence of elementary mathematics courses is MATH 110; MATH 118 or MATH 120; MATH 130 or MATH 131 or MATH 134; MATH 135; and MATH 136. A student who has received a 2.0 or better in any course of this sequence or its equivalent cannot subsequently receive credit for a course which appears before it in the sequence. A student may not receive credit for more than two courses among MATH 107, MATH 110, and MATH 200. A student may not receive credit for more than one course from each of the following groups: MATH 118 and 120; MATH 130, MATH 131, and MATH 134; MATH 244 and MATH 351. A student who has taken MATH 130 or MATH 131 and, due to a change of major, is required to take MATH 134 as preparation for MATH 135 will receive credit for both MATH 130 (or MATH 131) and MATH 134. In these cases credit for MATH 134 will be contingent on completing MATH 135 with a 2.0 or better.

Mathematics Courses

Eligibility to remain in courses for which students are registered will be based on the criteria listed within each course description, and will be determined by the instructor after the first day of class.

MATH 107 Mathematics: A Practical Art 5

General introduction to logic, sets, probability, statistics, algorithmic processes and other selected topics. Hands-on experience with technology. Emphasis on development of quantitative skills. Prerequisite: One year each of high school algebra and geometry. (fall, winter)

MATH 110 Functions and Algebraic Methods 5

Functions including linear, quadratic, other polynomial, and exponential. Modeling applications and problem solving emphasized. Supporting topics include equations, inequalities, systems of equations, rational expressions, exponents and radicals. Graphing calculator required. Prerequisite: University mathematics entrance requirements or satisfactory score on the Mathematics Placement Exam. (formerly MATH 101) (fall, winter, spring)

MATH 118 College Algebra for Business 5

Sets; relations and functions, graphing; linear, quadratic, exponential, logarithmic functions; systems of linear equations; inequalities; linear programming; applications to business. Graphing calculator required. Prerequisite: a grade of C- or better in MATH 110 or satisfactory score on Mathematics Placement Exam. Credit not granted for both MATH 118 and MATH 120. (fall, winter, spring)

MATH 120 Precalculus: Algebra 5

A study of functions including polynomial, rational, exponential, and logarithmic functions; composite and inverse functions; theory of polynomial equations; other selected topics. Provides review and extension of basic algebraic methods for solving equations and inequalities. Problem solving and mathematical writing are emphasized as well as algebraic skill. Graphing calculator required. Prerequisite: A grade of C- or better in MATH 110, or a satisfactory score on the Mathematics Placement Exam. Credit not granted for both MATH 118 and 120. (formerly MATH 111) (fall, winter, spring)

MATH 121 Precalculus: Trigonometry 2

Radian measure, trigonometric functions and their graphs, identities, trigonometric equations, inverse trigonometric functions. Graphing calculator required. Prerequisite: A grade of C- or better in MATH 118 or MATH 120, or a satisfactory score on the Mathematics Placement Exam. (formerly MATH 115) (fall, winter, spring)

MATH 130 Elements of Calculus for Business 5

Limits; continuity; rate of change; derivative, basic differentiation formulas, extrema; area under a curve; the definite integral and applications. Graphing calculator required. Prerequisite: a grade of C- or better in MATH 118 or MATH 120, or satisfactory score on the Mathematics Placement Exam. (fall, winter, spring)

MATH 131 Calculus for Life Sciences 5

Limits; rate of change; derivatives, basic differentiation formulas, extrema; the definite integral. Applications to the life and social sciences. Graphing calculator required. Prerequisite: a grade of C- or better in MATH 120 or satisfactory score on the Mathematics Placement Exam. Corequisite: MATH 121, unless exempted by qualifying examination. (spring)

- MATH 134 Calculus and Analytic Geometry I 5**
Limits and derivatives of rational, exponential, and trigonometric functions; applications of limits and derivatives. Computer laboratory component. Graphing calculator required. Prerequisite: a grade of C- or better in MATH 120, or satisfactory score on the Mathematics Placement Exam. Corequisite: MATH 121, unless exempted by qualifying examination. (fall, winter, spring)
- MATH 135 Calculus and Analytic Geometry II 5**
Theory, techniques, and applications of integration; differentiation and integration of trigonometric, exponential, and logarithmic functions; indeterminate forms; improper integrals. Graphing calculator required. Prerequisite: a grade of C- or better in MATH 134. (fall, winter, spring)
- MATH 136 Calculus and Analytic Geometry III 5**
Infinite series; Taylor's theorem; vectors; polar coordinates; solid analytic geometry. Graphing calculator required. Prerequisite: a grade of C- or better in MATH 135. (fall, winter, spring)
- MATH 200 Mathematics for K-8 Teachers 5**
Systems of numeration; algorithms; elementary logic; sets; introduction to probability and statistics. Emphasis on logic and problem solving. Prerequisite: MATH 110 or 107 or equivalent. (winter or spring of even years)
- MATH 222 Discrete Structures 5**
Logic; set theory; equivalence relations and partitions; algebraic structures, including Boolean algebras; combinatorics; graph theory; applications to computer science. Graphing calculator required. Prerequisites: a grade of C- or better in MATH 135 or permission of instructor; a computer programming course. (fall)
- MATH 232 Multivariable Calculus 3**
Partial derivatives, multiple integration, and applications. Graphing calculator required. Prerequisite: a grade of C- or better in MATH 136. (fall, winter, spring)
- MATH 233 Linear Algebra 3**
Matrices, determinants, vector spaces, linear transformations, eigenvalues. Graphing calculator required. Prerequisite: a grade of C- or better in MATH 136. (fall, winter, spring)
- MATH 234 Differential Equations 4**
First and second order differential equations; linear differential equations; systems of differential equations; power series solutions. Prerequisites: a grade of C- or better in MATH 232 and MATH 233. (fall, winter, spring)
- MATH 244 Probability and Statistics for the Sciences and Engineering 5**
Probability models; discrete and continuous random variables, basic concepts of descriptive and statistical inference; applications. The course will include use of computer software. Prerequisite: a grade of C- or better in MATH 135, or permission of instructor. (winter, spring) Cannot apply both MATH 244 and MATH 351 toward a mathematics major.
- MATH 291 Special Topics 1 to 5**
- MATH 292 Special Topics 1 to 5**

- MATH 296 Directed Study 1 to 5**
- MATH 310 Introduction to Advanced Mathematics 5**
 Logic and proofs; quantifiers; basic notions of set theory; induction, cartesian products and relations; equivalence relations; functions; cardinality. Prerequisite: MATH 136. (spring of even years)
- MATH 321 Euclidean and Modern Geometries 5**
 An axiomatic approach to finite geometries and basic Euclidean geometry; straight-edge and compass constructions; problems of antiquity; special topics in Euclidean geometry. Geometric transformations, the fifth postulate and non-Euclidean geometries. Prerequisite: MATH 135. (winter of odd years)
- MATH 331 Introduction to Complex Variables 5**
 The complex number system; analytic functions including exponential, logarithmic, and trigonometric functions; series; residues. Prerequisite: MATH 234. (fall of even years) (formerly MATH 437)
- MATH 351 Probability 5**
 Basic concepts and theorems in probability theory; the binomial, Poisson, normal, and other fundamental probability distributions; moments; limit theorems. Prerequisite: MATH 232. Cannot apply both MATH 244 and MATH 351 toward a mathematics major. (fall of odd years)
- MATH 361 Applied Mathematics I 5**
 Introduction to numerical methods for solving differential equations, phase plane analysis of nonlinear differential equations. Introduction to modeling. Computer laboratory component. Prerequisite: MATH 234 and PHYS 200. (winter of even years)
- MATH 371 Introduction to Numerical Methods 5**
 Approximation and errors; solution of equations and systems of linear equations; numerical integration. Four lecture hours and one computer laboratory hour per week. Prerequisites: MATH 233; proficiency in a programming language. (winter of odd years)
- MATH 381 Elementary Topology 5**
 Set theory; topology of the real line; topological spaces; compactness; connectedness; product spaces; metric spaces. Prerequisite: MATH 233. (spring of odd years)
- MATH 391 Special Topics 1 to 5**
- MATH 392 Special Topics 1 to 5**
- MATH 393 Special Topics 1 to 5**
- MATH 396 Directed Study 1 to 5**
- MATH 411 Introduction to Abstract Algebra I 5**
- MATH 412 Introduction to Abstract Algebra II 5**
 Theory of groups, rings, fields, and field extensions; vector spaces and linear transformations; special topics. Prerequisites: permission of instructor granted on first day of class for 411; 411 for 412. (offered in sequence: fall of even years, winter of odd years)

MATH 431	Introduction to Real Analysis I	5
MATH 432	Introduction to Real Analysis II	5
The real number system; continuity; point set theory; partial differentiation; Riemann-Stieltjes integrals; sequences and series of functions; power series; uniform convergence. Prerequisites: permission of instructor granted on first day of class for 431; 431 for 432. (offered in sequence: fall of odd years, winter of even years)		
MATH 461	Applied Mathematics II	5
Introduction to partial differential equations and the boundary value problems of mathematical physics; separation of variables, applications of Fourier series, Fourier transform, method of characteristics. Computer laboratory component. Prerequisite: MATH 361. (spring of even years)		
MATH 480	Interdisciplinary Core Course	3 to 5
Title and content change each term.		
MATH 487	Senior Synthesis	3
Problems in modern mathematics and applications. Individual projects will include a written report and a classroom presentation. Prerequisite: permission of instructor granted on first day of class. (spring) (formerly MT 481)		
MATH 491	Special Topics	1 to 5
MATH 492	Special Topics	1 to 5
MATH 493	Special Topics	1 to 5
MATH 496	Independent Study	1 to 5
MATH 497	Directed Reading	1 to 5
MATH 498	Directed Research	1 to 5

Mechanical and Manufacturing Engineering

Pierre C. Gehlen, PhD, Chair

Objectives

Mechanical engineers design, build, develop, maintain and modify the tools of our technological society. The mechanical engineer's domain is the wide realm of motion, as well as the forces and energy required for motion. Manufacturing engineers provide a key link between product design and production. They advise designing engineers about potential fabrication problems, specify manufacturing processes to the shop floor, and oversee the final production. It is the manufacturing engineer who transforms a good design into a good product.

Mechanical engineers and manufacturing engineers work in industry, consulting practice, government, and universities. They may work in classrooms, factories, offices, laboratories or testing facilities as teachers, managers, designers or researchers. Many hold managerial positions in their companies. Whether working on a new design or in corporate headquarters, these engineers are solving the technological problems of today and tomorrow.

The mission of the Department of Mechanical and Manufacturing Engineering is to prepare qualified students for a professional career in engineering, or in related fields such as engineering sales or management; to provide them with a solid background in the engineering sciences while emphasizing engineering design and the development of sound engineering judgement; and to inspire them, in the Jesuit tradition of liberal education, to lifelong intellectual, professional and humane growth. Specifically the Department adheres to the following objectives:

- To provide competence in mathematics and the natural and engineering sciences which are the technical foundation of the profession.
- To provide students with basic knowledge in both thermal and mechanical systems and the opportunity to expand that knowledge through more advanced courses in the areas.
- To give students a significant exposure to the humanities and social sciences in order to broaden their appreciation of the world and give them an understanding of the role of engineering in the larger society.
- To give students significant opportunities to apply engineering principles and tools to open-ended design problems.
- To instill in students an appreciation for the need to be life-long learners in a rapidly changing field.
- To develop in students an open-minded but critical approach to the analysis of problems, keeping in mind the technical, professional, social and ethical dimensions of any solution.
- To develop oral and written communication skills that allow one to be an effective advocate for one's point of view.
- To encourage the initiative and flexibility needed to function well with either individually or as a member of a team when multidisciplinary skills must be brought to bear on a problem.

Degree Offered

Bachelor of Science in Mechanical Engineering

Majors Offered

- Mechanical Engineering
- Mechanical Engineering with specialization in manufacturing engineering

Departmental Requirements

In addition to the prerequisites, departmental candidacy in one of the engineering departments is required for entry into 300- and 400-level courses. Candidacy is achieved by successfully completing all required 100 and 200 level CEEGR, CHEM, MMEGR, MATH, and PHYS courses with a combined grade point average of at least 2.50, and completing ENGL 110. Only courses graded C (2.0) or better may be transferred to offset degree requirements. Both the cumulative grade point average and the School of Science and Engineering grade point average must be at least 2.50 for graduation. Before entering the design sequence (MMEGR 487) you must take a comprehensive exam (for details, refer to the MME Student Handbook). Taking the Fundamentals of Engineering (FE) examination is required for the degree. This degree is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). Students must choose between the two departmental majors; they may not combine the two for a double major.

Bachelor of Science in Mechanical Engineering Major in Mechanical Engineering

In order to earn the bachelor of science in mechanical engineering degree with a major in mechanical engineering, students must complete a minimum of 180 credits including at least 45 credits in the core curriculum. A cumulative 2.5 grade point average is required, in addition to a science and engineering grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses:

HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	

ENGL 120	Masterpieces of Literature	5
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PHIL 220	Philosophy of the Human Person	5
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Social Science I (not economics)	5
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Social Science II satisfied by CEEGR 402	
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Theology and Religious Studies Phase II (200-299)	5
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Ethics (upper division)	5
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Theology and Religious Studies Phase III (300-399)	5
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Interdisciplinary satisfied within major.

Senior Synthesis filled by MMEGR 487, 488, 489.

See detailed core curriculum information in this bulletin.

II. Major Program Requirements

Sixty-seven credits in mechanical engineering, including:

MMEGR 105	Engineering Graphics and Design	3
MMEGR 181	Innovative Design	2
MMEGR 210	Statics	4
MMEGR 230	Dynamics	5
MMEGR 250	Materials Science	5
MMEGR 304	Basics of Computer Aided Engineering	4
MMEGR 321	Thermodynamics	4
MMEGR 324	Heat Transfer	4
MMEGR 371	Machine Elements	5
MMEGR 381	Engineering Methods	4
MMEGR 424	Thermal Systems Lab	2
MMEGR 435	Dynamic Systems	5
MMEGR 487	Engineering Design I	3
MMEGR 488	Engineering Design II	4
MMEGR 489	Engineering Design III	3
	Engineering Electives (approved by department)	10

III. Other Major Department Requirements

CEEGR 221	Strength of Materials I	4
CEEGR 222	Strength of Materials Lab I	2
CEEGR 331	Fluid Mechanics	4
CEEGR 402	Engineering Economy	3
CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
EEGR 315	Elements of Electrical Engineering	5
MATH 134	Calculus and Analytical Geometry I	5
MATH 135	Calculus and Analytical Geometry II	5
MATH 136	Calculus and Analytical Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics and Thermodynamics	5
	Science or Math Elective	5

Please Note: 1. A minimum of 45 credits in core curriculum courses is required for graduation. 2. The Fundamentals of Engineering (FE) examination is required for graduation. 3. MATH 244 preferred for science/math elective; alternates include BIOL 165, CHEM 122-32; PHYS 204, 205 or 330.

Bachelor of Science in Mechanical Engineering

Major in Mechanical Engineering

with specialization in Manufacturing Engineering

In order to earn the bachelor of science in mechanical engineering degree with a specialization in manufacturing engineering, students must complete a minimum of 180 credits including at least 45 credits in the core curriculum. A cumulative 2.5 grade point average is required, in addition to a science and engineering grade point average of 2.5, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics)		5
Social Science II satisfied by CEEGR 402		
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major.		
Senior Synthesis filled by MMEGR 487, 488, 489.		

See detailed core curriculum information in this bulletin.

II. Major Program Requirements

Sixty-four credits in mechanical engineering, including:

MMEGR 105	Engineering Graphics and Design	3
MMEGR 181	Innovative Design	2
MMEGR 210	Statics	4
MMEGR 230	Dynamics	5
MMEGR 250	Materials Science	5
MMEGR 304	Basics of Computer Aided Engineering	4
MMEGR 321	Thermodynamics	4
MMEGR 324	Heat Transfer	4
MMEGR 342	Manufacturing Processes	3
MMEGR 371	Machine Elements	5
MMEGR 381	Engineering Methods	4
MMEGR 435	Dynamic Systems	5
MMEGR 443	Manufacturing Automation	4
MMEGR 444	Computer Integrated Manufacturing (CIM)	2
MMEGR 487	Engineering Design I	3
MMEGR 488	Engineering Design II	4
MMEGR 489	Engineering Design III	3

III. Other Major Program Requirements

CEGR 221	Strength of Materials I	4
CEGR 331	Fluid Mechanics	4
CEGR 402	Engineering Economy	3
CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
EEGR 315	Elements of Electrical Engineering	5
MATH 134	Calculus and Analytical Geometry I	5
MATH 135	Calculus and Analytical Geometry II	5
MATH 136	Calculus and Analytical Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 244	Probability & Statistics	5
OPER 360	Manufacturing and Service Operations	5
PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics and Thermodynamics	5

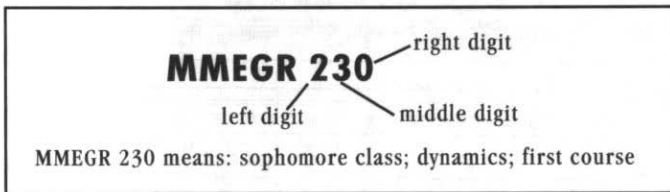
Please Note: 1. A minimum of 45 credits in core curriculum courses is required for graduation. 2. The Fundamentals of Engineering (FE) examination is required for graduation. 3. There is no room in the manufacturing engineering specialization for electives.

Mechanical and Manufacturing Engineering Courses

Please Note: All courses are numbered under a system which relates the technical content of lectures and laboratory courses to the subfields of the mechanical engineering and manufacturing engineering professions. The left digit indicates the nominal year in which the course is scheduled. The middle digit denotes the technical topic area according to the following listing. The right digit specifies the course uniquely and indicates the sequence within a subject area.

Left Digit	Middle Digit	Right Digit
1 Freshman	0 Computer Oriented	0-9 Course sequence number
2 Sophomore	1 Statics	
3 Junior	2 Energy	
4 Senior	3 Dynamics	
	4 Manufacturing	
	5 Materials	
	6 Aerothermodynamics	
	7 Machine Element Design	
	8 System Design	
	9 Special Topics and Independent Study	

Sample:



MMEGR 105 Engineering Graphics and Design 3

Technical sketching. Isometric, orthographic, auxiliary, and sectional views. Dimensioning. Introduction to computer-aided drafting (CAD) and solid modeling. Includes design project using CAD. Three two-hour sessions per week. Laboratory. (fall, winter, spring)

MMEGR 181 Innovative Design 2

The design process, including performance prediction and prototype construction and testing. Includes a guided class project, team evaluation of an existing engineering design, and a major team design project. Final exam will consist of an oral presentation and performance demonstration of the team design. Two two-hour sessions per week. Laboratory. (fall, winter, spring)

MMEGR 210 Statics 4

Vector algebra. Equilibrium of forces and moments, distributed forces, hydrostatics, friction, virtual work; all applied to simple bodies. Four lectures per week. Prerequisites: MATH 135, PHYS 200. (fall, winter)

- MMEGR 230 Dynamics 5**
 Vectors applied to kinematics and kinetics. Particle, system of particles, and rigid bodies related to translation, rotation, plane motion, relative motion, forces, impulse-momentum, work-energy. Design problem. Five lectures per week. Prerequisites: MMEGR 210, MATH 136. (winter, spring)
- MMEGR 250 Materials Science 5**
 Atomic structure. Metallic bond. Structure of metals and non-metals. Equilibrium diagrams. Time-dependent transformations. Relation of structure to properties. Elastic and plastic deformation. Four lectures, one three-hour laboratory per week. (spring, fall)
- MMEGR 291 Special Topics 1-5**
- MMEGR 292 Special Topics 1-5**
- MMEGR 293 Special Topics 1-5**
- MMEGR 296 Directed Study 1-5**
- MMEGR 304 Basics of Computer-Aided Engineering 4**
 Introduction to microcomputer structure. Basics of interfacing microprocessors with the real world. Applications: graphics, data acquisition, control, robotics. Design problem. Two lectures and one four-hour laboratory per week. Prerequisite: MMEGR 381. Pre- or corequisite: EEGR 315. (spring)
- MMEGR 321 Thermodynamics 4**
 Thermal properties of ideal and real gases, liquids, vapors and mixtures. Conservation of energy. Second law. Conversion of thermal energy to work. Power, efficiency, cycles, compressible gas flow. Four lectures per week. (winter, spring)
- MMEGR 324 Heat Transfer 4**
 Heat transfer—conduction, convection and radiation. Conduction in one and two dimensions, steady state and transient. Forced and natural convection with phase change. Design problem. Four lectures per week. Prerequisite: MMEGR 321. Pre- or corequisite: CEEGR 331. (spring)
- MMEGR 342 Manufacturing Processes 3**
 Overview of manufacturing processes including casting, forming, machining and welding; physics governing processes, the associated process parameters and their influences. Special emphasis is placed on plastics processing. Two lectures and one laboratory or field trip per week. Prerequisite: MMEGR 250. (spring)
- MMEGR 371 Machine Elements 5**
 Advanced strength of materials including combined loading, beams and columns, and an introduction to the finite element method. Introduction to statistics and reliability. Material failure including failure theories and an introduction to fracture mechanics and fatigue. Design of connections. Theory and use of common hand and machine tools. Four lectures and one three-hour laboratory per week. Prerequisite: CEEGR 221. Pre- or corequisite: MMEGR 250. (Formerly MMEGR 370.) (fall)

- MMEGR 372 Machine Elements II** 4
Continuation of MMEGR 371. Fasteners, welds, springs, bearings, gears, clutches and brakes. Design problem. Four lectures per week. Prerequisite: MMEGR 371.
- MMEGR 381 Engineering Methods** 4
Modern methods using computers to solve problems encountered in mechanical and civil engineering. Examples are stress analysis and beams (numerical integration, matrix methods, systems of simultaneous equations), stability of mechanical systems and columns (differential equations), and stress and heat transfer (finite difference models). Three lectures and one three-hour laboratory per week. Prerequisite: MMEGR 230 and MATH 234. (fall, winter)
- MMEGR 391 Special Topics** 1-5
- MMEGR 392 Special Topics** 1-5
- MMEGR 393 Special Topics** 1-5
- MMEGR 396 Directed Study** 1-5
- MMEGR 401 Principles of Instrumentation** 2
Review of the elements of instrumentation systems: sensors; cables; potentiometers; filters; and display devices. Further study of each system element to find sources of unwanted signals and/or noise. Study of methods to eliminate or minimize unwanted signals and noise. One lecture and one three-hour laboratory per week. Pre- or corequisite: MMEGR 304.
- MMEGR 421 Applied Thermodynamics** 4
Thermodynamics applied to ideal and real cycles, internal and external combustion engines, fans, blowers, compressors, nozzles, refrigeration, air conditioning. Design problem. Four lectures per week. Prerequisite: MMEGR 321. (Formerly MMEGR 425)
- MMEGR 424 Thermal Systems Laboratory** 2
Laboratory experiments in various thermal systems such as refrigeration system, air conditioning system, internal combustion engine, etc. Experimental verification of heat transfer principles. One lecture and one three-hour laboratory per week. Prerequisites: MMEGR 321. Pre- or corequisite: MMEGR 324. (fall)
- MMEGR 426 Heat/Ventilation/Refrigeration** 4
Psychometrics; space heating and cooling loads; air conditioning; fans and ducts; heat exchangers; solar systems; refrigeration. Four lectures per week. Prerequisites: MMEGR 321, MMEGR 324.
- MMEGR 431 Vehicle Dynamics** 4
Application of the principles of engineering mechanics to the dynamics of ground vehicles. Familiarization with methods to analyze, predict and design for vehicle dynamic performance. Acceleration and braking performance, aerodynamics and road loads, ride, directional response, rollover. Four lectures per week. Prerequisite: Mechanical Engineering candidacy.

MMEGR 435 Dynamic Systems 5

Modeling of mechanical, thermal, hydraulic, pneumatic, and electrical linear and non-linear systems. Introduction to computer modeling and simulation using existing symbolic computer programs. Laplace transforms, stability criteria, and frequency response. Four lectures and one three-hour laboratory per week. Prerequisite: EEGR 315 and MMEGR 381; Pre- or corequisite: MMEGR 324. (formerly MME 434 and MME 436) (fall)

MMEGR 438 Control Systems 4

Feedback control system analysis. Proportional, integral and derivative control. Control system design, compensation. Root locus, Nyquist and Bode plots. Analog and digital simulation. Four lectures per week. Prerequisite: MMEGR 435.

MMEGR 443 Manufacturing Automation 4

An overview of manufacturing automation and assembly including hard automation, flexible automation, NC machine, automated inspection systems, and programmable logic controllers. Applications of digital and analog controls to manufacturing systems. Four lectures per week. Prerequisites: MMEGR 304 and MMEGR 435. (winter)

MMEGR 444 Computer Integrated Manufacturing (CIM) 2

Fundamental components of computer integrated manufacturing. Topics include networking, relational databases, integration of CAD/CAM and inventory control, shop floor control, and applications to concurrent engineering. Two lectures per week. Prerequisite: MMEGR 304. (fall)

MMEGR 454 Fracture Mechanics 2

Modern fracture theory - stress intensity functions, including environmental effects and applications to fatigue. Two lectures per week. Prerequisite: MMEGR 371.

MMEGR 461 Compressible Flow 4

One-dimensional gas dynamics. Flow in nozzles and diffusers, normal shocks, frictional flows, and flows with heat transfer and energy release. Design problem. Four lectures per week. Prerequisites: MMEGR 321, CEEGR 331.

MMEGR 463 Gas Turbines 4

Basic gas dynamics, Brayton cycle, gas turbine engines, parametric and performance analysis, design principles of components. Design problem. Four lectures per week. Prerequisite: MMEGR 321.

MMEGR 465 Turbomachinery 4

Design operation of turbines and compressors, principles of turbine and compressor types, off-design operation, pumps, cavitation, fans. Design problem. Four lectures per week. Prerequisite: MMEGR 321.

MMEGR 471 Kinematics and Dynamics of Machinery 4

Analysis and synthesis of mechanisms based on combinations of linkages and cams. Considers geometry of motion, velocity and acceleration profiles, and associated forces. Uses manual analytical and graphical methods as well as more advanced computer methods. Four lectures per week. Prerequisite: Mechanical Engineering Candidacy.

MMEGR 487	Engineering Design I	3
MMEGR 488	Engineering Design II	4
MMEGR 489	Engineering Design III	3

Group design project focusing on the integrative aspects of engineering subject matter. The project should focus on: (1) philosophy of design, a creative approach, and a comprehensive design project; planning, organizing and leading an engineering project; exercising judgment and considering economic factors; and (2) integrated aspects of creative design and analysis; case studies; design of a novel device or system. Two one-hour lectures per week in addition to individual team design time. The three courses must be taken as a continuous sequence and fulfill the senior synthesis core requirement. Prerequisites: MMEGR 181 and department permission for 487; 487 for 488; 488 for 489. (487, fall; 488, winter; 489, spring)

MMEGR 491	Special Topics	2-5
MMEGR 492	Special Topics	2-5
MMEGR 493	Special Topics	2-5
MMEGR 496	Independent Study	1-5
MMEGR 497	Directed Reading	1-5
MMEGR 498	Directed Research	1-5

Physics

Michael A. Morgan, PhD, Chair

Objectives

The Physics Department offers two degree programs. For those who wish a career in physics, the bachelor of science in physics program takes the student from classical mechanics through quantum mechanics, including advanced laboratory courses emphasizing modern physics. The curriculum is designed to prepare students for advanced work in pure and applied physics or for graduate study. The bachelor of arts program is ideal for those who desire a solid background in physics but also want the flexibility to pursue other interests.

Degrees Offered

- Bachelor of Arts
- Bachelor of Science in Physics

Major Offered

Physics

Minor Offered

Physics

Bachelor of Arts Major in Physics

In order to earn the bachelor of arts degree with a major in physics, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
Choose one of the following two courses:		5
HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	
ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Social Science II (different discipline from Social Science I)		5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary		3 to 5
Senior Synthesis		3

See detailed core curriculum information in this bulletin.

II. Major Requirements

Forty-five credits in physics, including:

PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics, and Thermodynamics	5
PHYS 204	Relativity	2
PHYS 205	Introduction to Quantum Physics	3
PHYS 310	Intermediate Mechanics I	5
PHYS 330	Electromagnetic Field Theory	5
PHYS	Electives (not 100 level)	15

III. Other Major Department Requirements

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
	Related science electives (approved by department)	15

Please Note: No 100-level physics courses may be counted toward the major.

Bachelor of Science in Physics

In order to earn the bachelor of science in physics degree, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.0, including the following:

I. Core Curriculum Requirements

ENGL 110	Freshman English	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

Choose one of the following two courses:

HIST 120	Origins of Western Civilization	
HIST 121	Studies in Modern Civilization	

ENGL 120	Masterpieces of Literature	5
FINR 120	or approved fine arts alternate	5
PHIL 220	Philosophy of the Human Person	5
	Social Science I	5
	Social Science II (different discipline from Social Science I)	5
	Theology and Religious Studies Phase II (200-299)	5
	Ethics (upper division)	5
	Theology and Religious Studies Phase III (300-399)	5
	Interdisciplinary	3 to 5
	Senior Synthesis	3

See detailed core curriculum information in this bulletin.

II. Major Requirements

Sixty credits in physics, including:

PHYS 200	Mechanics	5
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PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics, and Thermodynamics	5
PHYS 204	Relativity	2
PHYS 205	Introduction to Quantum Physics	3
PHYS 310	Intermediate Mechanics I	5
PHYS 311	Intermediate Mechanics II	3
PHYS 330	Electromagnetic Field Theory	5
PHYS 331	Electromagnetic Waves	3
PHYS 484	Thermodynamics and Statistical Physics	5
PHYS 485	Quantum Mechanics	5
PHYS	Electives (not 100 level)	14

III. Other Major Department Requirements

MATH 134	Calculus and Analytic Geometry I	5
MATH 135	Calculus and Analytic Geometry II	5
MATH 136	Calculus and Analytic Geometry III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
	Related Science Electives (approved by department)	10

Please Note: No 100-level physics courses may be counted toward the major.

Minor in Physics

In order to earn a minor in physics, students must complete 30 credits in physics, including:

PHYS 200	Mechanics	5
PHYS 201	Electricity and Magnetism	5
PHYS 202	Waves, Optics, and Thermodynamics	5
PHYS 205	Introduction to Quantum Physics	3
PHYS	Electives (200-level and above)	12

Please Note: No 100-level physics courses may be counted toward the minor. See policy for minors on p. 46.

Teacher Education

The teacher preparation program is a graduate-level program only. Students interested in teaching should contact the Master in Teaching program (206) 296-5759 to be assigned an adviser to ensure that they meet state requirements for an academic program as well as the specific requirements for MIT admission.

Physics Courses

Please Note: PHYS 101, PHYS 105, PHYS 106, PHYS 107, PHYS 120, PHYS 200, PHYS 201, and PHYS 202 have four lectures and one laboratory per week.

- PHYS 101 Astronomy: The Solar System 5**
Description of the motions of celestial objects as seen from earth. Explanation of the motions from the early Greeks through the moderns. Survey of the physical properties and origins of the solar system, including the latest findings of space probes. Prerequisite: core mathematics requirement. (fall and spring)
- PHYS 105 Mechanics and Sound 5**
Non-calculus survey of classical mechanics. Statics, kinematics, and dynamics of particles and systems; fluids; harmonic motion, waves, and sound. Prerequisites: MATH 120, MATH 121 or equivalent. (fall)
- PHYS 106 Electricity, Magnetism, and Thermodynamics 5**
Survey of electromagnetism. Electrostatics, magneto-statics, electromagnetic fields, dc and ac circuits, introduction to thermodynamics. Prerequisite: PHYS 105. (winter)
- PHYS 107 Survey of Modern Physics 5**
Optics, including reflection refraction, interference, diffraction and polarization. Introduction to atomic and nuclear physics. Prerequisite: PHYS 106. (spring)
- PHYS 120 Science as a Human Process 5**
How science is actually done by real people; history of physics; concepts of relativity and quantum physics and their effect on society; recent controversies in earth science, such as global warming, ozone depletion, or what caused the death of the dinosaurs. Includes lab and satisfies the core phase I science requirement. Prerequisite: core mathematics.
- PHYS 200 Mechanics 5**
Vector mathematics; kinematics; conservation of momentum and collisions; relative motion and reference frames; force and Newton's laws; work, energy, and power; rotational dynamics; rigid body motion, gravitation. Prerequisites or corequisite: MATH 135. (winter, spring)
- PHYS 201 Electricity and Magnetism 5**
Electric charge, forces, field, flux; Gauss' law; electric potential; conductors, dielectrics, capacitance; current and resistance; DC circuits; magnetic forces, fields; inductance. Prerequisites: PHYS 200, MATH 135. (fall, spring)
- PHYS 202 Waves, Optics, and Thermodynamics 5**
Harmonic motion; mechanical, and electromagnetic waves; reflection, refraction, dispersion, interference, diffraction and polarization. Temperature, ideal gases, kinetic theory, second law of thermodynamics. Prerequisites: PHYS 201, MATH 136. (fall, winter)
- PHYS 204 Relativity 2**
An introduction to special relativity. The Lorentz transformation; relativistic kinematics and dynamics. Prerequisite: PHYS 202. (spring)
- PHYS 205 Introduction to Quantum Physics 3**
Evidence for the quantization of light, matter, and energy; the nuclear atom; wave-particle duality; the uncertainty principle; the Schrodinger equation and its applications. Prerequisites: PHYS 202; MATH 232. (spring)
- PHYS 291 Special Topics 1 to 5**
- PHYS 292 Special Topics 1 to 5**
- PHYS 293 Special Topics 1 to 5**

- PHYS 296 Directed Study 1 to 5**
- PHYS 310 Intermediate Mechanics I 5**
Vector calculus; single-particle Newtonian mechanics; linear oscillations; nonlinear oscillations and chaos; gravitation; calculus of variations; Lagrangian and Hamiltonian dynamics. Prerequisites: PHYS 200, MATH 234. (winter)
- PHYS 311 Intermediate Mechanics II 3**
Central force motion; systems of particles; noninertial reference frames; dynamics of rigid bodies; coupled oscillations. Prerequisite: PHYS 310 (spring)
- PHYS 330 Electromagnetic Field Theory 5**
Static electric and magnetic fields in vacuum and linear isotropic media; time-varying fields and Maxwell's equations; the wave equation and boundary conditions; propagation of electromagnetic waves in non-conducting media. Prerequisites: PHYS 201, MATH 234. (fall)
- PHYS 331 Electromagnetic Waves 3**
Further development of the theory of the propagation of electromagnetic waves; radiation of electromagnetic waves by moving charges; solutions of Laplace's and Poisson's equations in curvilinear coordinates. Prerequisite: PHYS 330. (spring)
- PHYS 340 Nonlinear Dynamical Systems and Chaos 4**
Coupled linear and nonlinear difference equations; coupled linear and nonlinear ordinary differential equations; fixed points; equilibrium points; stability; bifurcations; limit cycles; logistic equation; Feigenbaum scaling; fractals; Hausdorff dimension; dissipative and Hamiltonian systems; Liapunov's method; strange attractors; nonlinear oscillations; perturbation theory; Lorenz equations; chaos; predictability; computer programming and graphics. Prerequisites: PHYS 202, MATH 234.
- PHYS 350 Physics of Diagnostic Ultrasound 3**
The physics of pulsed ultrasound, including its production and detection by transducers, characteristics of pulses and sound beams, interaction of ultrasound with tissue including attenuation, impedance, reflection, refraction, scattering, ranging, and Doppler effect; introduction to ultrasonic instrumentation. Prerequisites: PHYS 106 or equivalent; MATH 131 or 134; enrollment in diagnostic ultrasound or permission. (fall)
- PHYS 363 Introduction to Geophysics 4**
Earth formation; plate tectonics; geomagnetism; continuum mechanics; earthquakes and seismology; volcanoes; physical properties of the deep earth; high-pressure geophysics. Prerequisites: PHYS 202, MATH 234
- PHYS 370 Modern Physical Measurement 4**
Historical modern physics experimental lab course with emphasis on state-of-the-art data acquisition techniques using computers. Material surfaces using scanning tunneling microscope (STM); black-body radiation and spectrophotometry; atomic physics. Prerequisites: PHYS 205, MATH 234
- PHYS 391 Special Topics 1 to 5**
- PHYS 392 Special Topics 1 to 5**
- PHYS 393 Special Topics 1 to 5**
- PHYS 396 Directed Study 1 to 5**

- PHYS 430 Modern Optics for Physicists and Engineers 4**
Introduction to modern optics consisting of ray optics; scalar wave optics; diffraction; interferometry; vector wave optics and polarization; Gaussian beam optics; Fourier optics, including image processing, spatial filtering, and holography; optical waveguides and fibers; optical resonators; laser amplifiers and systems; semiconductor lasers and detectors; optical switching and computing. Optional labs in holography and fiber optics. Prerequisites: PHYS 205, PHYS 330
- PHYS 480 Interdisciplinary Core Courses 3 to 5**
Title and content change each term.
- PHYS 483 Solid-State Physics 4**
Symmetry; crystal structure; x-ray and neutron diffraction; types of solids and bonding; vibrations in solids—phonons; electronic band structure; metals and semiconductors; p-n junctions. Prerequisites: PHYS 205, MATH 234 (formerly PH 488)
- PHYS 484 Thermodynamics and Statistical Physics 5**
Temperature; work; heat; internal energy; entropy; thermodynamic equilibrium; first and second laws; ideal gases; heat engines and refrigerators; reversible processes; thermal properties of matter and radiation; phase transitions; partition function; critical phenomena. Prerequisites: PHYS 205, MATH 234 (fall)
- PHYS 485 Quantum Mechanics 5**
Wave-particle duality, the state function, the Schrodinger equation, one-dimensional problems, the operator formalism, matrices, central forces, angular momentum, spin, identical particles. Prerequisites: PHYS 205, MATH 234. (fall)
- PHYS 486 Particle and Nuclear Physics 5**
Historical introduction to the elementary particles; symmetries and conservation laws; quantum electrodynamics; the weak interaction; introduction to quantum chromodynamics; properties of nuclei; nuclear radiations and their detection; nuclear structure and nuclear models. Prerequisites: PHYS 330, PHYS 485 (formerly PH 490)
- PHYS 487 Senior Synthesis 3**
Capstone course integrating physics and the humanities through investigation of one or more themes. Readings, classroom discussion, essays, and student presentations. Satisfies core senior synthesis requirement. Does not count for physics elective credit. Prerequisite: Permission of chair.
- PHYS 491 Special Topics 1 to 5**
- PHYS 492 Special Topics 1 to 5**
- PHYS 493 Special Topics 1 to 5**
- PHYS 496 Independent Study 1 to 5**
- PHYS 497 Directed Reading 1 to 5**
- PHYS 498 Directed Research 1 to 5**
- PHYS 499 Undergraduate Research 1-6**
Literature search and laboratory or computer investigation of a research problem in physics under the supervision of a faculty member. Preparation of a written report. Prerequisite: permission of department chair.

Premedical and Predental

Margaret L. Hudson, PhD, Adviser

If you are interested in careers in medicine, dentistry, veterinary medicine, optometry, or biomedical research, please meet with Dr. Hudson early during your first year at Seattle University, and after that on a regular basis, so that we can work together toward your professional goals. It is important to meet regularly with your academic adviser in your major department. You will probably want to get involved in the PreHealth Club, which sponsors speakers, outings, and projects of interest to students preparing for careers in the health professions.

Most of Seattle University's premedical, predental, preveterinary, and preoptometry students major in biology, chemistry, biochemistry, physics, general science, or psychology, but you may choose any academic major at Seattle University as long as you complete at least the minimum science course work listed below. Within the framework of any one of these undergraduate degree programs, students obtain strong backgrounds in the liberal arts through the core curriculum.

Most medical, dental, and veterinary schools require the following undergraduate science sequences: CHEM 121, 122, 123, 131, 132, 133, 335, 336, 337, 345, 346, 347; BIOL 165, 166, 167; PHYS 105, 106, 107. Schools of optometry generally require less organic chemistry. Professional schools also recommend or require calculus, cell physiology, and biochemistry. Check the bulletins of the professional schools of interest to you to learn about specific requirements. Most professional schools require, as a part of the application process, nationally standardized exams which draw on your college science background. These exams are taken a year to a year and a half in advance of the time you expect to enroll in the professional school, so planning the timing of required science courses is important.

Competition for entrance into medical, dental, veterinary, and optometry schools is strong. The schools look for evidence of intellectual ability, understanding of the profession based on your own direct experience, a sense of service, and personal qualities appropriate to the profession. Since academic coursework and professional demands are high, it is important that you regularly assess whether your original goal is still right for you.

The application process for entering graduate programs or professional school should start at least a year in advance of enrollment and your adviser is available to assist you. The standardized tests such as the Medical College Admissions Test (MCAT), and Optometry Admission Test (OAT) are administered locally twice a year. The Graduate Record Exam (GRE) and the Dental Admission Test (DAT) are administered more frequently. You will be asked to provide transcripts and individual letters of recommendation from people who are able to speak directly about your strengths.

The Premedical/Predental Advisory Committee is available to conduct an interview with each applicant and subsequently will write a supportive letter of evaluation for each qualified applicant.

Special Academic Programs

Culture and Language Bridge Program

Eli Hinkel, Ph.D., Director

Objectives

The Culture and Language Bridge Program is designed to prepare non-native speakers of English for a productive academic career at Seattle University. The primary goal of the program is to provide admitted Seattle University students with the background in the American academic culture and language skills essential for success in their studies. The courses offered in the program are highly advanced, with a specific focus on university-level reading, writing, listening, and speaking skills.

Description of Courses

During their first quarter at Seattle University, students at the beginning of their academic careers are usually expected to take courses in English Syntax for Writing (CLBR 086), Academic Reading and Writing (CLBR 087), Classroom Communication (CLBR 088), and one additional class based on the recommendation of their adviser. In their second quarter, first-year students are usually required to take Basic Writing (ENGL 101) and two additional courses.

Students who transfer to Seattle University during their subsequent years of study, as well as graduate students, are expected to take courses that advance their strategic reading and writing (CLBR 090), and academic speaking skills (CLBR 091) essential for success in their disciplines. In addition, the coursework for transfer and graduate students concentrates on the American academic culture and the specific preparation for requirements at Seattle University. Undergraduate business majors and graduate students enrolled in the Albers School of Business attend a supplemental course in conjunction with a five-credit-hour class, Management 280. These students are required to take Advanced Academic Discourse (CLBR 091) during their first quarter at Seattle University and have the option of taking Advanced Academic Writing (CLBR 090) in the same or the subsequent quarter.

The Program Schedule

The program is offered during the fall, winter, and spring quarters. Courses for undergraduate students are not offered in the summer, and classes for graduate students are taught when there is sufficient need.

Admission Requirements

All non-native speakers of English whose TOEFL (Test of English as a Foreign Language) score is between 520 and 577 (190 and 233 computer-based score) are required to take the Placement Essay Test upon their arrival at Seattle University. Students are supported by the Culture and Language Bridge Program when their writing skills as demonstrated on the Placement Essay Test, combined with their TOEFL scores at admission, indicate that their academic success at Seattle University requires it.

Placement Essay Test

The purpose of the placement essay test is to allow students an opportunity to demonstrate the quality of their writing. Placement essay tests are evaluated by the

university faculty and the staff of the Culture and Language Bridge Program based on such considerations as language fluency, rhetorical development, logical organization, and sentence structure. Students whose writing skills require additional improvement need to take courses in the Culture and Language Bridge Program. If students' writing in English appears to be in need of substantial work, they may be required to enroll in Academic Reading and Writing (CLBR 087) and the CLBR section of Basic Writing (English 101). Moderate writing skills, as determined by the essay evaluators, require students to take the Basic Writing course (English 101 CLBR section). On the other hand, students whose writing abilities are deemed sufficient for success in their academic studies do not need to enroll in the program. Students whose TOEFL scores are 580 or above are not expected to take the Placement Essay Test or enroll in the Culture and Language Bridge Program. However, they have the option of taking classes in the program if they choose to.

Program Requirements

In the Culture and Language Bridge Program, a student's work is evaluated with the goal of preparing non-native speakers for success in their studies at Seattle University. In keeping with this objective, the grading of English 101 follows the University grading system. All other CLBR courses carry an indication of "Language Prepared" (LP) for further university work or "Language Unprepared" (LU) designation. Successful completion of English 101 allows undergraduate students to earn five elective credits toward their graduation. Credits for all other CLBR courses are not applicable toward graduation requirements. However, CLBR courses and their evaluative designations are shown on students' transcripts.

Culture and Language Bridge Program Courses

Courses for students at the beginning of their academic careers

CLBR 086 English Syntax for Writing 3

The class meets twice a week and concentrates on syntactic structures, such as sentence constructions and phrase-level grammar, essential in the production of English academic writing. The course is specifically geared toward lexical and grammatical regularities in English syntax that can facilitate writing clarity and cohesion. Grading scale: LP/LU.

CLBR 087 Academic Reading and Writing 5

The class meets daily and focuses on the interaction between reading, writing, and critical thinking. Paraphrasing, summary writing, library research, and the writing process as it pertains to American academic writing, as well as effective reading are examined. Issues of sentence structure and style are also addressed. Grading scale: LP/LU.

CLBR 088 Classroom Communication 2

The class meets three times a week and concentrates on the interaction of culture and language in the classroom. Informal and formal speech varieties, lecture comprehension, classroom participation, intelligibility, and oral presentations are examined. Grading scale: LP/LU.

Courses for Transfer and Graduate Students**CLBR 090 Advanced Academic Writing 3**

The class meets three times a week and presents various concepts fundamental in academic writing in English (reasoned and objective argumentation, information synthesis, writing from sources, and the essential elements of the essay structure). Paraphrasing and vocabulary development represent ongoing supplementary course goals. Grading scale: LP/LU. (formerly Advanced Language and Communication)

CLBR 091 Advanced Academic Discourse 3

Focuses on American cultural values and assumptions as an intrinsic part of the discourse in American academic settings. Provides an avenue for improving students' global speaking and listening skills, discourse-level construction of presentations, as well as academic discussion and participatory skills. Grading scale: LP/LU.

CLBR 092 Supplemental CLBR 0

Required for business majors and graduate students in the Albers School of Business. This student-centered workshop includes lecture and discussion in support of an academic course (Management 280). Mandatory CR/F grading with minimum achievement level equal to LP/LU.

Early Success Program

Lisa Fraser, Director

Objectives

The Early Success Program is designed for freshmen who do not meet standard admission requirements, but who show high motivation and academic promise. The program prepares students for the academic rigor of Seattle University by strengthening their academic skills in preparation for university admission. As participants in the program, students establish individual relationships with Seattle University faculty, staff, and students; this support system helps ESP students as they progress through new learning experiences in the university.

Admission Requirements

Applications of students who do not meet the standard admission requirements of the university are reviewed by the Early Success Program Director. Students who are then invited to apply for ESP go through a rigorous application process. It includes:

- a supplemental application
- an essay on an assigned topic
- submission of a recent writing sample
- an interview with the ESP Director

Final admission decisions are based on the student's ability and motivation as demonstrated by their entire application. Students are typically notified of their admission to ESP within two weeks of completing the ESP application process.

Program Requirements

In order to secure admission to Seattle University, ESP students must successfully complete the summer intersession by earning a minimum grade of "C" in each course. During the following academic year, students in the Early Success Program must maintain a minimum 2.0 cumulative grade point average, and participate in all designated activities.

Early Success Program Sessions

Session I: Summer Intersession: Students enroll in two university courses, English 101 and Freshman Seminar. Designed to help new freshmen determine what is expected of college-level students, the courses focus on learning to read and write critically. Students learn to critique their own writing to make it competent and forceful while instructors function as learning coaches. Classes are interactive and discussion oriented. Each student develops a work plan for fall quarter based on particular strengths and learning style. Off-campus trips, computer projects, tutoring sessions, and time for study are also included in Session I. Students must live on campus during this session.

Session II: Fall Quarter: The ESP Director assists students in choosing two or three fall quarter courses that reflect the freshman course requirements and the intended major of each student. ESP students meet weekly for Freshman Seminar workshops, and participate in an academic support system which features tutoring, peer support groups, study sessions, social functions, mentoring, and career counseling.

The Institute on Character Development

The Institute on Character Development is dedicated to preparing Seattle University students to help middle and high school students through times of confusion, uncertainty and growth. SU students work with youth in local community and church organizations to help develop their views of purpose in life, relationships, dealing with suffering, and character development. They do this by organizing retreats, giving special presentations in class rooms, and being present in community based and recreational settings. Students are prepared for these internships in teaching and working with youth by a special ethics course (Ethics and Character Development) which fulfills the core ethics requirement. Emphasis is given to student ownership, building community around shared ideals, and serving the community through presence, teaching, spirit, and friendship. Interested students should contact the student coordinators at 296-5463.

Graduate Programs

Recently, new graduate degree programs have been added nearly every year as the university strives to meet the changing needs of working professionals. The university added the School of Law in 1994 and today graduate students account for 41 percent of total university enrollment.

Graduate Degrees Offered

See the *Graduate Bulletin of Information* for further details.

College of Arts and Sciences

Master of Arts in Psychology

Institute of Public Service

Master of Public Administration

Executive Master of Not-For-Profit Leadership

Albers School of Business and Economics

Master of Arts in Applied Economics

Master of Business Administration

Master of International Business

Master of Professional Accounting

Master of Science in Finance

Post-Master's Certificates

School of Education

Master of Arts in Education

Master of Education

These degrees may be earned in the following programs: adult education and training, counseling and school psychology, curriculum and instruction, education administration, student development administration, and teaching English to speakers of other languages.

Master in Teaching

Educational Specialist

This degree may be earned in educational administration or school psychology.

Doctor of Education

Post-Master's Certificates

School of Nursing

Master of Science in Nursing

School of Science and Engineering

Master of Software Engineering

School of Theology and Ministry

Master of Arts in Pastoral Studies

Master of Arts in Transforming Spirituality

Master of Divinity

Post-Master's Certificates

School of Law

Juris Doctor (see the *Law Bulletin* for more information)

Joint Degrees with Albers School of Business and Economics

JD/MAE

JD/MBA

JD/MIB

JD/MSF

Information

For admission, program requirements, and information on specializations, see the *Graduate Bulletin of Information* or contact the Admissions Office, Seattle University, 900 Broadway, Seattle, WA 98122-4340, telephone: (206) 296-5900; fax: (206) 296-5656; Internet: www.seattleu.edu.

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Mary Romer Cline, MDiv

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TBA

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Minority Student Affairs

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Executive Director
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Director
International Student Center

Kay Hubbard, MEd

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Leadership and Service

Helen A. LaBouy, MBA

Director
Career Development Center

Howard H. Morishige, PhD

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Jeannie Natta, MEd

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Residential Living

Laurie Prince, BA

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New Student Programs

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Faculty

The year in parenthesis following faculty names indicates initial appointment to the University. Asterisk (*) denotes tenured faculty.

Mara B. Adelman, PhD* (1994)

Associate Professor, Communication/Journalism Department, College of Arts and Sciences

BA Speech Communications, 1972, University of California, Los Angeles; MA Speech Communications, 1980, and PhD, 1986, California State University, San Diego

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Associate Professor, Counseling Education, School of Education

BA Psychology, 1963, Butler University; MS Counseling and Guidance, 1967, Purdue University; EdD Rehabilitation Counseling, 1971, University of Arizona

Janet E. Ainsworth, JD* (1988)

Professor, School of Law

BA magna cum laude and Louis Dembitz Brandeis Scholar, 1974, Brandeis University; MA East Indian Studies, 1977, Yale University; JD cum laude, 1980, Harvard Law School

Mary A. Alberg, PhD* (1979)

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BA Physics, 1963, Wellesley College; MS Physics, 1970, and PhD Physics, 1974, University of Washington

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BA, 1966, Sacramento State College; MS, 1977, Wartburg Theological Seminary; PhD, 1984, Aquinas Institute of Theology

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*BA Biblical Studies, 1981, BS Physical Sciences, 1981, Northwest Christian
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*BA English, 1963, University of Oregon; MAT English, 1968, University of
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BA Psychology, 1972, PhD Education, 1993, University of Washington

Marilyn J. Berger, JD* (1978)

Professor, School of Law

*BS Economics and Industrial Labor Relations, 1965, Cornell University; JD with Honors Moot Court Program, 1970, University of California, Berkeley***Christine P. Black, PhD (1999)**Assistant Professor, Mathematics Department, School of Science and Engineering
*BS Mathematics and Computer Science, 1989, University of Puget Sound; MS Mathematics, 1994, and PhD Mathematics, 1998, University of Massachusetts***David Boerner, LLB* (1981)**

Associate Professor, School of Law

*BS, 1962, University of Illinois; LLB, 1963, University of Illinois***James E. Bond, SJD* (1986)**

Professor, School of Law

*AB, 1964, Wabash College; JD, 1967, Harvard University; LLM, 1971, SJD, 1972, University of Virginia***David A. Boness, PhD* (1990)**

Associate Professor, Physics Department, School of Science and Engineering

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Rector, Jesuit Community, and Assistant Professor, School of Theology and Ministry; Institute for Catholic Theological Studies

*BA, Gonzaga University; MDiv, Jesuit School of Theology, Berkeley***Hamida H. Bosmajian, PhD* (1966)**

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*BA, 1961, University of Idaho; MA, 1962, University of Connecticut; PhD, 1968, University of Connecticut***Sandra F. Brandt, MLS (1994)**

Associate Librarian, Reference Department, A.A. Lemieux Library

*BA, 1967, University of Iowa; MLS, 1980, University of Missouri, Columbia***Melinda J. Branscomb, JD* (1989)**

Associate Professor, School of Law

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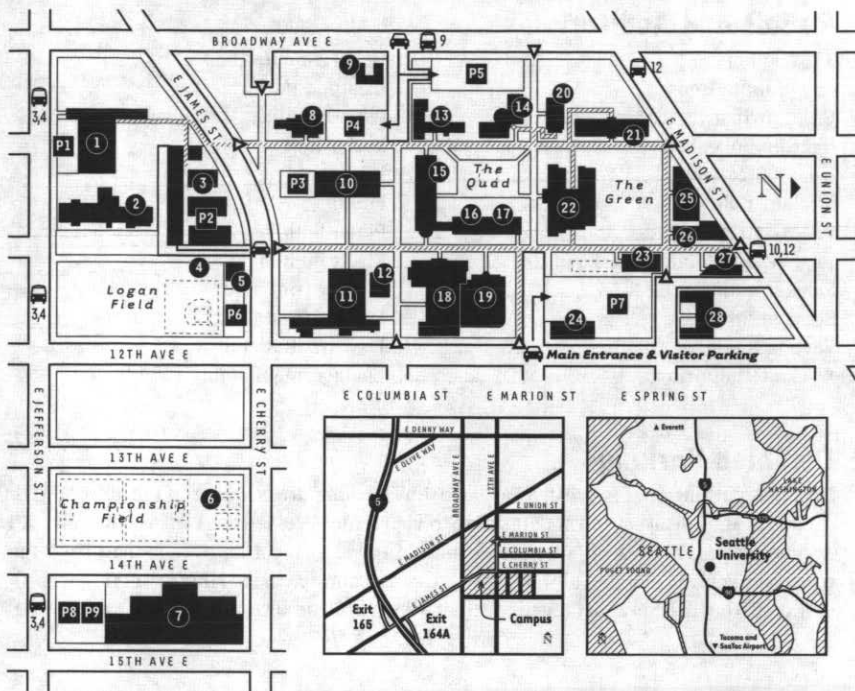
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Index of Discipline Codes

(Includes Graduate programs; excludes Law School)

ACCT	Accounting	INBU	International Business
ADST	Addiction Studies	INFO	Information Technology
AEDT	Adult Education and Training	ISSC	Interdisciplinary Science (See General Science)
ANTH	Anthropology	ISSS	Interdisciplinary Social Science
ART	Art	JPAN	Japanese
BETH	Business Ethics	LATN	Latin
BLAW	Business Law	LBST	Liberal Studies
BIOL	Biology	MATH	Mathematics
BUEN	Business Environment	MBA	Master in Business Admin- istration
CEEGR	Civil and Environmental Engineering	MGMT	Management
CHEM	Chemistry	MKTG	Marketing
CLBR	Culture and Language Bridge	MLSC	Military Science
CMJR	Communication/Journalism	MMEGR	Mechanical/Manufacturing Engineering
COMPE	Computer Engineering	MUSC	Music
COUN	Education — Counseling	MVST	Medieval Studies Minor
CRJS	Criminal Justice	NPLR	Not-for-Profit Leadership
CSSE	Computer Science/Software Engineering	NURS	Nursing
CUIN	Education — Curriculum and Instruction	OPER	Operations
DIUS	Diagnostic Ultrasound	PHIL	Philosophy
DRMA	Drama	PHYS	Physics
ECIS	E-Commerce and Information Systems	PLSC	Political Science
ECON	Economics	PSYC	Psychology
ECST	Ecological Studies	PUBM	Public Administration — Graduate Level
EDAD	Educational Administration	SDAD	Student Development Administration
EDLR	Educational Leadership	SOCL	Sociology
EPDXX	Professional Development— Post-Baccalaureate	SOCW	Sociology /Social Work
EDUC	Education	SPAN	Spanish
EEGR	Electrical Engineering	SPSY	Education — School Psychology
ENGL	English	SABD	Study Abroad
FINC	Finance	STMA	Institute for Theological Studies - Advanced
FINR	Fine Arts	STMM	Institute for Theological Studies
FREN	French	TEED	Teacher Education
FRLG	Foreign Language	TRST	Theology and Religious Studies - Undergraduate
GERM	German	TSOL	Teaching English to Speakers of Other Languages — Graduate Level
GREK	Greek	WMST	Women's Studies
HIST	History		
HONR	Humanities (Honors)		
HRMA	Human Resources Management		
HUMT	Humanities (Matteo Ricci College)		



▲ Campus Entry Point // Accessible Route 🚗 King County Metro 🚗 Parking Entrance P9 Parking Area

- | | | |
|--|--------------------------------|---|
| 21 Administration Building | 1 Campion Residence Hall | 14 Matteo Ricci College |
| 19 Admissions Office | 24 Campus Services Building | 12 McGoldrick Center |
| 21 Alumni Office | 14 Casey Building | 22 Pigott Building |
| 3 Archbishop Murphy Apartments | 23 Chapel of St. Ignatius | 27 Institute of Public Service |
| 8 Arrupe Jesuit Residence | 7 Connolly Center | 22 Public Relations Office |
| 14 Arts and Sciences | 21 Development Office | 13 School of Education |
| 17 Bannan Biology Wing | 15 Engineering Building | 18 School of Law |
| 16 Bannan Building | 4 Field House | 20 School of Nursing |
| 15 Bannan Center for Science and Engineering | 25 Fine Arts Building | 9 School of Theology and Ministry Annex |
| 11 Bellarmine Residence Hall | 20 Garrard Building | 15 Science and Engineering |
| 2 Bessie Burton Sullivan Skilled Nursing Residence | 19 Human Resources | 26 Student Union Building |
| 19 Book Store | 5 International Student Center | 18 Sullivan Hall |
| 22 Albers School of Business and Economics | 10 Lemieux Library | 6 Tennis Courts and Facility |
| | 13 Loyola Hall | 19 University Services Building |
| | 27 Lynn Building | 28 Xavier Residence Hall |

P1 10th and E. Jefferson Lot F, S

P2 11th and E. Cherry Garage D, F, S, V

P3 10th and E. James Lot S

P4 10th and E. Columbia Lot D, J, S

P5 Broadway and E. Columbia Garage C, F

P6 12th and E. Cherry Lot S

P7 12th and E. Marion Lot C, D, S, V

P8 14th and E. Jefferson South Lot S

P9 14th and E. Jefferson North Lot F

C Carpool D Disabled F Faculty and Staff J Jesuit S Student V Visitor

Rooms and Auditoriums

1891 Room	Bellarmino Hall
Campion Ballroom	Campion Hall
Casey Atrium	Casey Building
Chardin Collegium	Xavier Hall
Lynn Collegium	Lynn Building
McNulty Collegium	Library
Paccar Atrium	Pigott Building
Puget Power Conference Room	Pigott Building
Schafer Auditorium	Library (first floor)
Stimson Room	Library (first floor)
Vachon Room	Fine Arts Building
Wyckoff Auditorium	Engineering Building (2nd floor)

Disabled Parking

Disabled parking spaces located in the visitor parking areas with entrances from 12th Avenue at Marion Street and at Columbia Street provide access to the 11th Avenue and 10th Avenue malls. There is no accessible route of travel to the 10th Avenue mall from the Broadway Parking Garage.; however, two spaces are located in the Library west lot, with an entrance from Broadway at Columbia Street, which provide access to the 10th Avenue mall.

Eastside Education Center

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**Seattle
University**
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