

2008

2008-2009 Bulletin of Information - Undergraduate

Seattle University

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CONNECTING THE MIND TO WHAT MATTERS



UNDERGRADUATE BULLETIN OF INFORMATION

2008–2009



SEATTLE UNIVERSITY

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The university reserves the right without prior notice to change the fees, rules and calendar regulating admission and registration, instruction and graduation from the university, and to change any other policy or regulations affecting students. Changes go into effect whenever university officials so determine and apply not only to matriculated students but also prospective students. The university 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 matriculation. Students who do not enroll for more than four consecutive quarters must reapply for admission and are subject to the requirements for their school and major and for university core curriculum in effect at that time.

At all times students are responsible for accessing online the most up-to-date version of this *Bulletin* and university policies, rules or regulations. *Bulletins*, policies or regulations posted online are the most current and are intended to supersede prior online versions and hard copies.

This *Bulletin* contains general information. It is not a contract and statements in it should not be construed as a promise of specific treatment for any particular circumstance.

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**2008–2009 Undergraduate
Bulletin of Information**

Seattle University Nondiscrimination Policy

Seattle University does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, marital status, sexual or political orientation, or status as a Vietnam-era or special disabled veteran in the administration of any of its education policies, admission policies, scholarship and loan programs, athletics and other school-administered policies and programs, or in its employment related policies and practices. All university policies, practices and procedures are administered in a manner consistent with Seattle University's Catholic and Jesuit identity and character.

Inquiries relating to these policies may be referred to the university's Human Resources Manager and Equal Opportunity Officer at (206) 296-5865.

Consistent with the requirements of Title IX of the Education Amendments of 1972 and its implementing regulations, Seattle University has designated three individuals responsible for coordinating the university's Title IX compliance. Students or employees with concerns or complaints about discrimination on the basis of sex in employment or an education program or activity may contact the following Title IX coordinators:

Ruth Donohue

Human Resources Manager
Equal Opportunity Officer
University Services Building 107
(206) 296-5865
donohue@seattleu.edu

Jacob Diaz

Dean of Students
Student Center 140C
(206) 296-6066
diazj@seattleu.edu

Jacquelyn Miller

Associate Provost for Academic Affairs
Administration 104
(206) 296-5446
jcmiller@seattleu.edu

Individuals may also contact the Office for Civil Rights of the U.S. Department of Education.



SEATTLE UNIVERSITY

For More Information

Enrollment Services

Admissions (Undergraduate)

(206) 296-2000, option 1

Toll-free: (800) 426-7123

admissions@seattleu.edu

Website: seattleu.edu

Office of the Registrar

(206) 296-2000, option 3

Student Financial Services

(206) 296-2000, option 2

Academics

Albers School of

Business and Economics

(206) 296-5700

College of Arts and Sciences

(206) 296-5300

College of Education

(206) 296-5760

College of Nursing

(206) 296-5660

College of Science and

Engineering

(206) 296-5500

Matteo Ricci College

(206) 296-5405

School of Law

(206) 398-4300

School of Theology and Ministry

(206) 296-5330

Center for Nonprofit and

Social Enterprise Management

(206) 296-5440

Center for the Study of

Sport and Exercise

(206) 296-6387

Institute of Public Service

(206) 296-5440

Resources/Services

Alumni Office

(206) 296-6127

Campus Assistance Center

(206) 296-6464

Campus Ministry

(206) 296-6075

Career Development Center

(206) 296-6080

Controller's Office

(206) 296-5880

International Student Center

(206) 296-6260

Lemieux Library

(206) 296-6233

Office of Multicultural Affairs

(206) 296-6070

Public Safety

(206) 296-5990

Residence Life and Housing

(206) 296-6305

Veteran's Affairs Officer

(206) 296-5847

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



SEATTLE UNIVERSITY

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Summer Quarter 2008

June 23	Classes Begin: First 4-week, 7-week and 8-week terms
June 29	Last Day, Add/Drop or Change Grading Options: First 4-week, 7-week and 8-week terms
June 30	Registration continues: Second 4-week and intersession terms
July 4	Independence Day: No classes
July 7	Last Day to Withdraw: First 4-week term
July 14-15	New Student Orientation 1
July 17-18	New Student Orientation 2
July 19	Last Class Day: First 4-week term
July 21	Classes Begin: Second 4-week term Last Day to Withdraw: 7-week term
July 21-22	New Student Orientation 3
July 27	Last Day to Add/Drop or Change Grading Options: Second 4-week term
July 28	Last Day to Withdraw: 8-week term
Aug. 1	Last Day to Remove N Grade: Summer 2007
Aug. 4	Last Day to Withdraw: Second 4-week term
Aug. 9	Last Class Day: 7-week term
Aug. 16	Last Class Day: 8-week and second 4-week terms
Aug. 20	Grades Due: Noon Grades posted on SU Online by 6 p.m.

Intersession 2008

Aug. 18	Classes Begin
Aug. 24	Last Day to Register, Add/Drop or Change Grading Options
Aug. 29	Last Day to Withdraw
Sept. 1	Labor Day: No classes
Sept. 15	Last Class Day
Sept. 17	Grades Due: Noon Grades posted on SU Online by 6 p.m.

Fall Quarter 2008

Sept. 10	Non-Matriculated Registration begins
Sept. 17	University Convocation for faculty and staff: 8 a.m. to noon
Sept. 20-23	Welcome Week: attendance required for all new freshmen
Sept. 22	New Student Academic Convocation
Sept. 24	Classes Begin
Sept. 30	Last Day to Register, Add/Drop or Change Grading Options
Oct. 1	Last Day to Apply for Graduation: Winter 2009
Oct. 2	Mass of the Holy Spirit; classes cancelled: 11 a.m. to 1 p.m.
Oct. 25	Last Day to Remove I Grade: Spring, summer and Intersession 2008
Nov. 1	Last Day to Apply for Graduation: Spring 2009
Nov. 3-7	Advising: Winter 2009
Nov. 7	Last Day to Withdraw
Nov. 10	Advance Registration begins: Winter 2009
Nov. 11	Veterans Day: No classes
Nov. 15	Last Day to Remove N Grade: Fall 2007
Nov. 19	University Mission Day: 8 a.m. to noon. No day classes; all classes that begin at 4:30 p.m. or later will meet as scheduled.
Nov. 26-29	Thanksgiving Break: No classes
Dec. 6	Last Class Day

Dec. 8-13	Final Examinations
Dec. 14-Jan. 4	Winter Break
Dec. 17	Grades Due: Noon
	Grades posted on SU Online by 6 p.m.
Dec. 22	Non-Matriculated Registration: Winter 2009
Dec. 24- Jan. 1	Administrative offices closed, re-open Jan 5.

Winter Quarter 2009

Jan. 5	Classes Begin
Jan. 11	Last Day to Register, Add/Drop or Change Grading Options
Jan. 19	Martin Luther King, Jr.'s Birthday: No classes; Saturday, Jan. 17 classes will meet as scheduled.
Jan. 31	Last Day to Remove I Grade: Fall 2008
Feb. 1	Last Day to Apply for Graduation: Summer and Fall 2009
Feb. 13	Last Day to Withdraw
Feb. 13	Friday day classes cancelled. All Monday classes that begin before 4:30 p.m. meet on Friday, during Monday's scheduled time; Friday classes that begin 4:30 p.m. or later and Saturday classes will meet as scheduled.
Feb. 16	President's Day: Day classes cancelled. All Monday classes that begin at 4:30 p.m. or later will meet as scheduled.
Feb. 17-20	Advising: Spring 2009
Feb. 23	Advance Registration begins: Spring 2009
March 1	Last Day to Remove N Grade: Winter 2008
March 16	Last Class Day
	Non-Matriculated Registration: Spring 2009
March 17-21	Final Examinations
March 23-28	Spring Break
March 25	Grades due: Noon
	Grades posted on SU Online by 6 p.m.

Spring Quarter 2009

March 30	Classes Begin
April 5	Last Day to Register, Add/Drop or Change Grading Options
April 10	Good Friday: No classes
April 11	Easter Saturday: No classes
April 12	Easter Sunday
April 25	Last Day to Remove I Grade: Winter 2009
May 1	Last Day to Remove N Grade: Spring 2008
May 8	Last Day to Withdraw
May 11-13	Advising: Summer 2009
May 11-15	Advising: Fall 2009
May 13	Advance Registration begins: Summer 2009
May 18	Advance Registration begins: Fall 2009
May 25	Memorial Day: No classes; Saturday, May 23 classes will meet as scheduled.
June 8	Last Class Day
June 9-13	Final Examinations
June 13	Baccalaureate
June 14	Commencement
June 17	Grades Due: Noon
	Grades posted on SU Online by 6 p.m.

Dates are subject to change. Refer to the academic calendar online at seattleu.edu/registrar for updated information. For more information or questions, e-mail: registrar@seattleu.edu.

Mission

Seattle University is dedicated to educating the whole person, to professional formation, and to empowering leaders for a just and humane world.

Vision

We will be the premier independent university of the Northwest in academic quality, Jesuit-Catholic inspiration, and service to society.

Values

- **Care:** We put the good of students first.
- **Academic Excellence:** We value excellence in learning with great teachers who are active scholars.
- **Diversity:** We celebrate educational excellence achieved through diversity.
- **Faith:** We treasure our Jesuit Catholic ethos and the enrichment from many faiths of our university community.
- **Justice:** We foster a concern for justice and the competence to promote it.
- **Leadership:** We seek to develop responsible leaders committed to the common good.



SEATTLE UNIVERSITY

Organization

A holistic approach to teaching and learning is the cornerstone of a Seattle University education, which nurtures the intellectual, spiritual and personal growth of our students. At SU, scholarly pursuits go hand-in-hand with the Jesuit tradition of social justice and service learning. Our undergraduate and graduate students excel in the classroom and are making their mark in their communities and beyond.

History

Founded in 1891, Seattle University offers a values-based education steeped in the Jesuit tradition. The university's positioning as the Northwest's premier independent universities is closely woven with the history of Seattle and the Puget Sound region.

The early years of what would become Seattle University began to take shape in 1890, when Father Aegidius Junger, bishop of what was then called the Nisqually Diocese became concerned over the lack of educational opportunities for Catholic youth in the Seattle area. He made 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 bishop's requests, Fathers Victor Garrand and Adrian Sweere arrived in town from the Yakima station in the spring of 1891.

The two Jesuits immediately leased St. Francis Hall, a building constructed the previous year at 6th and Spring in downtown Seattle by Father Francis X. Prefontaine, the area's first resident priest. The building became the parish and School of the Immaculate Conception, and with the support of two Holy Names sisters who served as full-time teachers, the fathers were underway with an ambitious educational initiative. By 1898, the parish school of young men officially became Seattle College and the progenitor of what would become Seattle University.

Forward to present-day Seattle University, a vibrant and diverse campus with more than 7,500 undergraduate and graduate students that continues the traditions of its founders through a commitment to a mission- and purpose-driven education.

About Seattle University

Situated on 48-acres, SU is home to eight schools and colleges: the Albers School of Business and Economics, the College of Arts and Sciences, the College of Education, the College of Nursing, the College of Science and Engineering, Matteo Ricci College, the School of Law and the School of Theology and Ministry.

Seattle University, one of 28 Jesuit Catholic universities in the country, cultivates intellectual and spiritual development with its high-caliber faculty, small class sizes, academic rigor, challenging curriculum and emphasis on education for justice.

The university, its colleges and programs consistently rank among the best in the nation by *U.S. News and World Report* and Princeton Review's *Best Colleges* guide.

Located within steps of Seattle's downtown core, SU provides distinctive learning, service and career opportunities for students. There are 59 undergraduate and 31 graduate degree programs that offer a variety of specializations, plus 27 certificate programs.

To balance the intellectual demands of the curriculum, students take advantage of the abundant cultural and recreational opportunities afforded by our location within a dynamic, global city and the natural wonders of the Pacific Northwest.

Students don't need to venture off campus to enjoy the serenity of an urban oasis with the university's lush green spaces and distinctive Japanese gardens. In 2007, Seattle University was certified as a wildlife habitat by the National Wildlife Federation, which followed the university's designation in 1989 as a Backyard Wildlife Sanctuary by the Washington State Department of Fish and Wildlife.

Seattle University is also widely known for its efforts and initiatives that support sustainability. As a green campus, SU is a nationally recognized leader in recycling—the university recycles more than 62 percent of its waste. Water conservation and renewable energy are also important to the university. In 2006, SU President Stephen Sundborg, S.J., and Seattle Mayor Greg Nickels co-signed the Seattle Climate Partnership agreement to reduce greenhouse gas emissions in the workplace. SU also participates in Seattle City Light's Green Up program, which helps fund renewable energy resources. The university committed 15 percent of its electrical usage to support new renewable energy.

At SU, facilities are more than simply bricks and mortar; they play an important role in how we educate our students and the programs we provide. In the past 15 years, the campus has undergone more than \$200 million in facilities improvements, with more than \$21 million in the last year alone. Recent additions include the Clinical Performance Nursing Laboratory and the Jeanne Marie and Rhoady Lee, Jr. Center for the Arts, a premier performing arts center to showcase the university's dramatic and visual arts and music. In 2007, the university revamped its central entry point to the campus; a large, bold SU logo was painted on the asphalt near a main walking path and the visitor parking lot to make the area more visible and inviting.

The centerpiece and spiritual center of SU remains the Chapel of St. Ignatius, the vision of architect Steven Holl that recently marked its 10th anniversary. In addition to being a campus and civic landmark, the chapel is a popular place of worship for the campus community and its friends and neighbors.

How We Educate

At Seattle University, excellent teaching—supported by high quality scholarship and personalized attention to student learning—ensures an intellectually challenging education, which is at the heart of our mission in undergraduate, graduate and professional programs.

The university culture supports a total experience, one that promotes vision, character and leadership.

The Jesuit-Catholic educational tradition sows independent thinkers who are informed by the humanities and social justice as they grow into global citizens.

Course work, programs and activities reflect the Jesuit principles of the service of faith and promotion of justice to address issues of poverty, injustice, discrimination, violence and the environment in committed and effective ways.

For the faith component of an SU education, the university encourages and assists all students in exploring their relationship with humanity, nature and God, and provides all members of the university community the means to deepen their understanding of faith.

Student Academic Services and Programs

Meeting the needs of a diverse student body means providing a variety of programs, activities and resources to enhance the educational experience. It also means helping students achieve success from the moment they step on campus to the day they walk across the stage at commencement.

Academic Advising and Support Services

"The central element in advising excellence," as written in Seattle University's *Faculty Handbook*, "is genuine and sustained concern for students as persons and belief in their capacity for self-directed growth." Faculty and staff members who advise or provide related services in support of academic success and retention recognize the vital role an advisor plays in the overall college experience. Faculty, professionals and peers serve as academic advisors in the various colleges and schools.

Student Academic Services provides support to develop and promote high-quality campus advising services. This includes ongoing skill-building opportunities for faculty advisors and dissemination of the latest advising information.

Student Academic Services also coordinates a referral system that identifies students experiencing academic difficulties and extends resources and support.

Information: (206) 296-2260, seattleu.edu/sas.

Athletics

The Department of Athletics takes a holistic approach to developing student-athletes by creating a culture where they can achieve success while balancing academics and athletics. The mission of the department is the development of ethical leaders, teamwork and sportsmanship central to the Jesuit mission of educating the whole person.

The university sponsors 14 intercollegiate sports at the Division II level: men's and women's basketball, cross country, indoor and outdoor track and field, and soccer, and women's softball, volleyball and swimming. The university will add men's baseball, men's and women's golf and tennis between 2008 and 2010, and by 2012 the athletics program will be a full Division I institution.

Many of our student-athletes are high achievers off the field and in the classroom, earning All-American recognition. Our athletes were honored with the 2006-07 Great Northwest Athletic Conference (GNAC) Academic All-Sports Award, as the combined GPAs of students posted one of the conference's top two cumulative grade point averages in six sports.

Information: (206) 296-6441, seattleredhawks.cstv.com/.

Career Development Center

The Career Development Center offers services to assist students and recent graduates in career choices. These include internship assistance, career testing and employment guidance, plus help with résumé and cover letter writing, and job search strategies.

Information: (206) 296-6080, seattleu.edu/student/cdc/.

Center for Student Involvement

The Center for Student Involvement is where students get connected to their peers and activities at SU. Involvement in campus life enriches the educational experience. The Center for Student Involvement brings together leadership development, new student programs and activities to create and nurture meaningful opportunities.

Information: (206) 296-2525, seattleu.edu/getinvolved.

Collegia

Seattle University collegia provide a home-away-from-home environment for students who commute to the university. The university offers five collegia where students gather to study, socialize and relax while on campus.

Information: (206) 296-6297, seattleu.edu/student/commuters/collegia.

Culture and Language Bridge

The Culture and Language Bridge program is designed to prepare non-native English speakers for a productive academic career. The primary goal of the program is to provide students with an understanding of American academic culture. The courses offered in the program are highly advanced, with a specific focus on university-level reading, writing, listening and speaking. The program is offered in fall, winter and spring quarters.

Information: (206) 296-6064, seattleu.edu/academics/bridge/.

Disabilities Services

Disabilities Services is a component of the Loyola Learning Center that provides academic counseling, support, advocacy and referrals for students with disabilities. The office arranges academic adjustments such as testing adaptations, note takers, books on tape, facilities access, adaptive/auxiliary aids and interpreters, and coordinates other forms of reasonable accommodation to allow students with disabilities to participate in university programs, services and activities. Written documentation of a student's disability from a qualified professional must be submitted before reasonable accommodations and academic adjustments can be provided. Copies of the Seattle University Section 504/ADA Policy and Appeal Procedure are available at the Loyola Learning Center or online at seattleu.edu/student/lc/.

Information: (206) 296-5740, seattleu.edu/SAS/DS.

International Student Center

The International Student Center (ISC) serves hundreds of students from more than 60 countries. The center strives to enable international students to achieve success at SU and to enrich the campus community through their cultural perspectives.

The International Student Center also serves as a focal point for activities and programs of cultural, educational or social significance.

Information: (206) 296-6260, seattleu.edu/student/isc/.

Loyola Learning Center

The Loyola Learning Center provides academic support and study skill enhancement for students. The center also offers tutors, workshops, learning style assessment and study skills instruction, and one-on-one consultation to design strategies for improving time management, reading comprehension, test preparation and test and note taking.

Information: (206) 296-5740, seattleu.edu/student/lc/.

Office of Fellowships

Seattle University has a proven track record when it comes to prestigious scholarships, fellowships and awards.

In the 2006–07 academic year, 18 students received fellowships and grants, including three Fulbright scholarships; a Soros Fellowship; a Rotary Ambassadorial Scholarship; a Goldwater Scholarship; and two Truman Scholar Awards.

In 2007, Caroline Dennis, '08, and Nazir Harb, '08, became the 10th and 11th Truman Scholars from SU—the first time two Truman Scholars were selected from SU in the same year. In 2008, junior Kai Smith became SU's 12th Truman Scholar. The Harry S. Truman Scholarship Foundation designated SU as an Honor Institution, a distinction given to universities that have several Truman Scholars and that promote the values of public service.

The Office of Fellowships supports undergraduate and graduate students in their search for fellowships, grants and other academic opportunities. The office provides a clearinghouse of information about various funding opportunities and assists students in locating fellowships that fit their interests, experience and goals.

A range of fellowship opportunities is supported through the Office of Fellowships, from smaller, local competitions to prominent national contests.

While the Office of Fellowships offers guidance in choosing a fellowship, its primary mission is to support students through the application process. This includes writing assistance, advising and interview preparation.

Information: (206) 296-2517, seattleu.edu/fellowships/.

Office of Multicultural Affairs

The Office of Multicultural Affairs is committed to supporting the academic, social and cultural success of a diverse student population. In doing so, a variety of services, activities, programs and referrals are provided to complement, enhance and support instructional learning.

Information: (206) 296-6070, seattleu.edu/student/omsa.

Premajor Studies Program

The Premajor Studies program, a division of the College of Arts and Sciences, provides academic advising and support in exploring major and career choices for undecided freshmen and sophomores. Special programs offered throughout the year broaden students' experience of exploration, discernment and decision-making.

Information: (206) 296-2260, seattleu.edu/artsci/premajor/.

Student Governance

Seattle University recognizes the importance of student involvement in the campus community. Student government provides not only leadership opportunities, but also a means to contribute to a vital and engaged campus life as well. The Associated Students of Seattle University (ASSU), Seattle University's undergraduate student government, organizes and leads services and programs geared toward students. The association also offers support for student clubs and events, and advocates on campus issues.

Information: (206) 296-6050, seattleu.edu/assu.

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.

Information: (206) 296-6047, seattleu.edu/student/seac/index.htm.

Writing Center

The Writing Center is a union of academic excellence and outreach. The center exists to support the university's core curriculum and to serve the writing needs of the greater campus community. The Writing Center is staffed with writing consultants from multiple disciplines who are trained to work on a range of writing assignments.

Information: (206) 296-6239, seattleu.edu/writingcenter.

Educating the Whole Person

A well-rounded education is about more than scholastic success—it is values- and mission-driven; it enriches and inspires. Confident, skilled student leaders are developed through our top-notch educators and service and social justice offerings. In addition to academic achievements and personal growth, Seattle University provides many opportunities for exploration of faith, and fitness and wellness.

Campus Ministry

Campus Ministry brings together and supports the many faith communities at Seattle University. In addition to outreach and education, the office promotes social justice, pas-

toral care and service, and personal and spiritual growth through various programs and regional and international learning experiences.

The heart of the university's Catholic faith community is the Chapel of St. Ignatius, which offers daily and Sunday liturgies and special events, such as concerts and Taizé prayer. The Campion Ecumenical Chapel provides a large worship space for denominational and ecumenical Christian worship, and the Campion Multifaith Prayer Room offers a sacred place for daily personal prayer and group prayer for persons of all faiths. The Immaculate Conception Chapel, located on the second floor of the Administration Building, offers a place of refuge and prayer, and is the site of a weekday Mass.

Campus Ministry offers many resources and service-learning opportunities through the Maguire Center and Hunthausen Resource Center, both located on the first floor of the Student Center.

Information: (206) 296-6075, seattleu.edu/missionministry/ministry/.

Education Abroad

The Education Abroad Office facilitates intellectual and intercultural experiences that contribute to leadership and service in the Jesuit tradition.

Almost half of the students who participate in education abroad take short-term trips, and the rest spend a quarter or longer abroad at schools in Austria, Japan, France, Belize, China, Spain or Mexico.

Additional international abroad opportunities are available through the Research for Development Graduate Program and the International Development Internship Program. The Research for Development Graduate Program places graduate students in internships where they conduct research for non-governmental organizations (NGOs) in Africa and Southeast Asia, Burma and Thailand. The International Development Internship Program is a 20-credit academic program for undergraduate students—now in its seventh year—that connects students with internships with NGOs in Latin America, Africa and Asia. Both programs focus on students acquiring a sense of responsibility for social justice, which enables them to serve communities at local, national and international levels.

To prepare for this international service and deepen their understanding afterward, students attend on-campus seminars before and after their time abroad.

Information: (206) 296-2226, seattleu.edu/studyabroad.

Mission and Ministry

Mission and Ministry consists of several branches that extend outward to connect the Jesuit and Catholic character of Seattle University with academic and service-learning programs. The office encompasses Jesuit Mission and Identity, the chaplain for faculty and staff, Magis: Alumni Committed for Mission, and Campus Ministry, which coordinates on-campus chapels and liturgical services.

Information: (206) 296-6133, seattleu.edu/missionministry.

Center for Service and Community Engagement

In keeping with the Jesuit tradition and principles of service and justice, students have opportunities to serve and learn through the Center for Service and Community Engagement.

More than two-thirds of SU's undergraduates took a course with a service-learning component and 70 percent volunteered in 2006–07.

The office promotes student leadership in the community, supports service-learning courses and builds partnerships with local community-based organizations through various service opportunities. Several major Center for Service and Engagement projects include the annual Serve Seattle Day, a series of service immersion trips and the year-long Student Leaders for a Common Good program.

Information: (206) 296-2569, seattleu.edu/csce/index.asp.

Recreational Sports

Recreational Sports provides opportunities for students to get connected with the SU community by participating in a club sport, intramurals, leisure education classes or working out at our athletics facility, Connolly Center.

Connolly Center is the nucleus of athletic and recreational activity at Seattle University. The facility provides a comprehensive sports complex with two gyms, swimming pools, a complete fitness and weight room, and an exercise and indoor cycling room, among other amenities. Visitors can join a pick-up game of basketball in one of the two indoor gyms, work out in the weight room or challenge friends to a game of handball. Tennis courts, a softball field, running track and soccer field complete the sports facilities.

Throughout the year, students can compete in men's, women's or co-ed intramural leagues. There are a variety of intramural sports leagues at SU, including tennis, racquetball, softball and floor hockey.

The university also offers a wide range of intramural and club sports, including skiing, golf, tennis, ice hockey and ultimate frisbee. Classes are available in aerobics, taekwondo and yoga.

Club sports are student-run and include baseball, cycling and cheerleading.

For the outdoor enthusiasts there's the Outdoor and Adventure and Recreation (OAR) program. OAR provides students with opportunities to explore the outdoors through diverse recreational happenings. Activities, which vary quarterly, include hiking and climbing, and snow and water sports.

Information: (206) 296-6441, seattleu.edu/student/recsports.

Student Development

Student Development is committed to creating a vital and engaged campus community that challenges and supports undergraduate, graduate and professional students.

Working in partnership with other areas of the campus, the Student Development division provides programs, services and activities to assist students in developing the competencies, skills set and values needed to lead and serve in a diverse and changing world.

Information: (206) 296-6066, seattleu.edu/studentdevelopment/.

Teaching for the 21st Century Student

SU draws on its distinguished faculty and personalized attention to learning—the student-to-faculty ratio is 13:1—to ensure today’s tech-savvy and socially conscious students receive the best education and learning experience.

Most full-time faculty have earned doctoral degrees and are active scholars, contributing to the advancement of their fields. Service and social justice underpin the SU curriculum, and help develop our students into global citizens.

Students from all majors are encouraged to expand their understanding of other countries and cultures by studying, working or doing community service abroad. International options abound through Education Abroad. Faculty members also lead field studies abroad. Additionally, the International Development Internship program arranges quarter-long volunteer opportunities for service and leadership in developing nations.

Campus Life and Services

Seattle University residence halls are more than a place for students to rest their heads—they are an intersection for living and learning. In addition to providing an engaging environment in residence halls, the university offers many vital services within the confines of the campus. This includes the Public Safety office where students can get parking permits and bus passes, as well as safety escorts, and the Student Health Center, which provides primary care services and more. The Lemieux Library offers a vast collection of resources and research materials and the SU Bookstore is the go-to place for course textbooks and supplies, plus snacks and other sundries. University Food Services give students options when it comes to what they eat, with a variety of healthy choices at convenient locations on campus.

Bookstore

The Seattle University Bookstore is a one-stop source for textbooks and course-related materials. The bookstore also offers software, electronics and a selection of apparel and gift items, plus popular works of fiction and non-fiction, and self-help and spirituality books. The bookstore carries distinctive products and gifts, including artisan crafts from Nicaragua.

Information: (206) 296-5820, seattleubookstore.com/.

Counseling and Psychological Services

Counseling and Psychological Services assists students in meeting the challenges of college life by encouraging healthy personal choices and balanced perspectives. Students can seek counseling and psychological services for a variety of reasons and concerns, such as depression or anxiety, life crises, relationship challenges, sexuality issues, and drug and alcohol abuse. Licensed social workers, psychologists and graduate interns provide group, couple and individual counseling and referral services for those requiring specialized or long-term care. These services are provided without charge to current students. All clinical services are confidential, and no information is released without the student's consent, unless required or allowed by law. The staff also provides consultation and crisis intervention to the greater campus community.

Information: (206) 296-6090, seattleu.edu/student/counsel/.

Lemieux Library

Lemieux Library is a hub of resources, technology and services. The library houses a growing collection of more than 234,000 volumes, 2,700 current serials subscriptions, 556,000 microforms, 1,300 online databases and electronic journals, 2,400 electronic books and 5,600 videos.

Scattered among the library's various study areas is a 24-hour reading room, plus a computer area with access to library materials and the Internet.

An experienced Reference Department staff provides group or individual instruction in locating and using resources and routinely assists students one-on-one with special research projects.

Information: (206) 296-6230, seattleu.edu/lemlib.

Public Safety

Public Safety believes that by reporting incidents of crime and addressing safety concerns, individuals can contribute to the development of a healthy and safe community. Public Safety provides 24-hour security for the campus. Security staff is available to assist students in a variety of ways, including first aid, safety escorts, crime prevention and vehicle assistance.

Information: (206) 296-5911 (emergency); (206) 296-5990, seattleu.edu/safety/.

Student Health Center

The Student Health Center provides primary care to all students. Nurse practitioners are available daily (Monday through Friday) and consultation for medical issues is provided at no charge. There is a small fee for preventative services such as physicals and annual exams for women. Prescription medications and lab tests are available at a minimal cost. There are also nominal fees for minor routine office procedures; most immunizations are provided to students at cost. Students who need a medical specialist or who experience a serious illness or injury must obtain and pay for these services at facilities other than

the Student Health Center. The health center staff will assist in obtaining referrals for such services they cannot provide.

All services are confidential and no information is released without a student's permission. Students under the age of 18 must have an authorization form for treatment signed by a parent or guardian.

Information: (206) 296-6300, seattleu.edu/student/health/.

Residence Halls and Murphy Apartments

Seattle University requires full-time freshmen and sophomores under age 21 to live in university residence halls unless they are married, have children or reside with their parents. Cultural diversity and respect for differences is valued in each of our five residence hall communities. Each community has its own personality and traditions. Bellarmine and Campion, our two traditional residence halls, provide a variety of learning communities. Xavier offers a global living-learning community for all undergraduates who share an interest in global education. Our newest hall, Chardin, is a 144-bed suite-style residence hall. The Archbishop Murphy Apartments houses 325 juniors and seniors. All residence halls are staffed with a hall director, resident assistants, desk assistants and lab technicians. Additionally, a Jesuit-in-residence or residential minister lives on each floor.

Information: (206) 296-6305, seattleu.edu/student/housing/.

University Food Services

University Food Services, operated by Bon Appétit, meets the needs and tastes of our distinctive student body with a menu that pairs American classics with international flavors. In addition to providing foods on the go—such as snacks, prepackaged sandwiches, pastries and beverages—Bon Appétit offers rustic, wood-fired pizza, pastas, salads, desserts and more. The menu also reflects a commitment to local, organic foods and fair trade. Bon Appétit offers several varieties of coffee that support fair trade farmers.

Information: (206) 296-6310.

Undergraduate Admission

Admission Policy (Policy 2004-02)

Regulations outlined in this *Bulletin of Information* are supplemented by memoranda that set forth policy in greater detail. References to applicable policy statements are noted parenthetically. Copies of these academic policies may be obtained from the Office of the Registrar or online at seattleu.edu/registrar.

The Provost and the Dean of Admissions administer university admissions policy. A student's acceptance of an admission offer constitutes a commitment by the student to abide by university policies, rules and regulations, including those concerning registration, academic performance, student conduct, health and safety, use of the libraries and computing resources, university facilities and the payment of fees and assessments. The university reserves the right to withhold registration privileges or to cancel the registration of any student who is not in compliance with university policies, rules or regulations. All admission materials submitted by applicants are 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 of Information*.

Seattle University seeks to enroll students who, beyond meeting the university's eligibility requirements, demonstrate high academic achievement; moral character; evidence of integrity and personal maturity; significant commitment to citizenship through public service and school activities; community involvement and leadership; and represent a broad diversity of cultural, racial, geographic and socio-economic backgrounds. We take into consideration personal qualities, including whether an applicant has faced and withstood unusual adversity and whether the applicant shows promise as a contributing member of our academic community. An individual's past conduct, particularly as it may relate to unlawful or criminal behavior, is relevant to the admission process. Accordingly, Seattle University reserves the right to deny admission or continued enrollment to individuals who have engaged in unlawful or criminal behavior. Each applicant and student is responsible to disclose in writing to the Dean of Admissions any and all criminal convictions classified either as a felony or gross misdemeanor.

Students are expected to fully and truthfully complete all information requested by the university in connection with the application for admission process and to supplement the application if any information changes between submission of the application and enrollment. False or misleading information or material omissions in connection with the application process will result in denial of admission, withdrawal of admission, dismissal, cancellation of course credit or other appropriate action in the judgment of the university. The Dean of Admissions reserves the right to deny acceptance or to withdraw admission from an applicant for academic or other reasons that in the judgment of the Dean are relevant to the applicant's qualifications to attend the university.

Undergraduate admission is available to qualified applicants for any of the four quarters of the academic year. Inquiries should be addressed to the Undergraduate Admissions Office, Seattle University, 901 12th Avenue, PO Box 222000, Seattle, WA 98122-1090.

Applications

Application forms can be obtained by contacting the Undergraduate Admissions Office, Seattle University, 901 12th Avenue, PO Box 222000, Seattle, WA 98122-1090. Seattle University accepts the Common Application and Universal College Application for undergraduate admission; these can be accessed online through the Seattle University website, www.seattleu.edu, the Common Application group, www.commonapp.org or the Universal College Application group, www.universalcollegeapp.com. Undergraduate applicants must also complete and return a Seattle University supplemental application. It can be downloaded from a link on either the Common Application or Universal College Application site or the Admission's Office on the SU website.

Financial Aid

Often the college application process coincides with completing the Free Application for Federal Student Aid (FAFSA), which is available online at www.fafsa.ed.gov beginning on Jan. 1 for the following school year; the application should be submitted to the federal processor as soon after Jan. 1 as possible. The FAFSA form must be submitted by Feb. 1 for priority consideration for all financial aid 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 as the recipient of this information. See the Financial Aid section that follows for more information.

Freshman Admission Procedures and Timetable

Freshman Admission

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

- Seattle University Supplemental Application
- 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
- Second letter of recommendation (teacher recommendation)
- Essay or personal statement
- Non-refundable \$50 application fee*

*The application fee is waived for alumni, and for the children or grandchildren of Seattle University alumni, and nieces and nephews of Catholic clergy who are SU graduates.

The deadline for early action admission consideration is Nov. 15; the deadline for priority consideration for regular fall quarter admission is Feb. 1.

Notification for fall quarter for early action applicants is the end of December; regular admission begins in early February and continues as space is available. Students whose

records are not consistent with the average student admitted the previous year may need to submit additional information and will be advised that a final decision will not be made until the additional information is received. Notification of admission decisions are sent by mail; admissions personnel will not provide admissions decisions over the telephone or via e-mail.

Fall quarter freshman applicants for admission should apply by Feb. 1. Applications submitted later are considered on a space-available basis only. All admission credentials should be postmarked by Feb. 1 for priority consideration for the fall quarter, and by the following deadlines for fall, winter, spring and summer quarters:

Fall quarter	Aug. 15
Winter quarter	Nov. 15
Spring quarter	Feb. 20
Summer quarter	May 15

Freshman waiting list notifications are mailed beginning in March and continue until the freshman class is filled. Typically, a final admission notification of freshman waiting list candidates is mailed by mid-July.

A non-refundable confirmation deposit is required of all enrolling new undergraduates, for any quarter of admission. Deposits must be postmarked by May 1 or within 30 days of acceptance, whichever is later, for those accepted for fall quarter. Deposits are due within 15 days of acceptance for those admitted in the winter, spring or summer quarters.

Appeals of admissions decisions must be made in writing and mailed to the Dean of Admissions. Appeals should indicate why the applicant believes the decision should be reconsidered. Such applicants are advised to include any new information about their academic records that will assist the admissions staff in its deliberations. Notifications of reconsidered applications are sent by mail.

Freshman Admission Requirements

Seattle University is committed to making decisions on admission based on a holistic review of an applicant's background.

Primary consideration is given to an applicant's course selection and performance. Preference is also given to entering freshmen who will complete a minimum of 16 secondary units in core ("gateway") subjects. This includes:

- Four years of high school English (not including English as a Second Language course work).
- Three years of college preparatory math, e.g. Algebra I and II and Geometry. Four units of college preparatory math, including the equivalent of pre-Calculus, are required for entrance to College of Science and Engineering programs (except pre-science).
- Two years of laboratory science. Laboratory biology and chemistry are required for admission to the College of Nursing; laboratory chemistry and physics are required for entrance to engineering programs; laboratory chemistry and biology are required for entrance to the Bachelor of Science-Biology degree program.

- Three years (equivalent) of social science and/or history.
- Two years of a foreign language (foreign language unit requirement may be waived if compensated with additional coursework in English, social studies, laboratory science and/or math).
- Two additional electives from the above listed subject areas.

The College of Arts and Sciences requires completion of one full year of a single modern language for degree completion.

The middle 50 percent of enrolling freshmen typically have grade point averages between 3.3 and 3.8 (on a 4.0 scale). Admission 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 the case of non-traditional freshman applicants. Typically a minimum score of 58 in each section is required for admission consideration.

Applicants are required to submit scores from the American College Test (ACT) or the SAT I. 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 carefully considered during application review.

Special Consideration

Occasionally, students who show exceptional promise may be admitted to SU without strict adherence to the minimum admission requirements. The provost and the university's Admissions Review Board make decisions on admissions in these cases.

Applicants with Disabilities

It is the policy of Seattle University to comply with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act regarding students and applicants with disabilities. Under these laws, no qualified individual with a disability will be denied access or participation in services, programs and activities at the university. The university's Equal Opportunity Officer, who can be reached at (206) 296-5869, is the person designated as the ADA/Section 504 compliance officer. For information about services on campus for students with disabilities, visit www.seattleu.edu/student/lc/disabilityservices/Students/IntroService.htm.

Applicants are not required to indicate on an admission application whether they have a disability. An applicant may choose to identify a physical, learning, psychological or other disability and ask that it be considered a relevant factor in the admissions process. The information is intended to enhance an individual's opportunity for admission and will not be used to discriminate against the applicant. The decision to disclose a disability is a personal one, and the university respects an applicant's decision not to do so. All information supplied by an applicant to the university regarding any disability will be treated confidentially and used only for special admissions review.

Individuals who do not identify as having a disability at the time of applying to SU will be evaluated for admission in the regular manner. If a student is admitted and does have a

disability, it is the student's responsibility to report any such condition as soon as possible to Disabilities Services if they require special services or accommodations.

For assistance and more information contact Disabilities Services at (206) 296-5740.

Non-discrimination in Admissions

Seattle University does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, marital status, sexual or political orientation, or status as a Vietnam-era or special disabled veteran in the administration of any of its education or admission policies; scholarship and loan programs; athletics; and other school-administered policies and programs, or in its employment policies and practices. All university policies, practices and procedures are administered in a manner consistent with Seattle University's Catholic and Jesuit identity and character. Inquiries about the non-discrimination policy may be directed to the university's Equal Opportunity Officer and Title IX coordinator at (206) 296-5865.

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 information about these tests is available from secondary school counselors or the Educational Testing Service (ETS). Upon your request, ETS will send test results directly to SU. College credit may be earned for AP examinations scored three or higher for some departments and four or higher for others.

The university's specific Advanced Placement policies can be found online at seattleu.edu/registrar/Policies/Policy_PDFs/Policy_75-16.pdf. A maximum of 45 credits from Advanced Placement test results may be applied toward a Seattle University degree.

Advanced standing or credit may also be granted on the basis of the subject examinations of the College Level Examination Program (CLEP) of the College Board. CLEP General Examinations are not accepted. To receive course credit through CLEP, official test results must be received by the Office of the Registrar one month before the quarter in which a student wishes to enroll.

SU credits awarded for these examinations based on work completed in secondary school are not considered to be transfer credits and will not contribute to junior transfer waivers. They do, however, fall within the maximum chronological transfer credit restrictions.

International Baccalaureate (Policy 99-1)

The university grants course credit and advanced standing for upper-level subjects in the International Baccalaureate program passed with a grade of five 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.

SU credits awarded for these examinations based on work completed in secondary school are not considered to be transfer credits and will not contribute to junior transfer waivers. They do, however, fall within the maximum chronological transfer credit restrictions.

Home Schooled Freshman Applicants (Policy 2004-03)

The university welcomes applicants who have received their education through home-schooling.

First-time freshman applicants who have been home schooled are required to submit the following to accompany their applications:

1. An official homeschool transcript, signed by the individual(s) responsible for determining the educational plan and overseeing instruction. This transcript must specify by year the specific disciplines covered, the minimum number of hours per week of instruction involved and grades earned in each subject.

First-time freshman applicants must complete the following course work by the time of home school graduation in order to be considered for admission:

- Four full years of high school English (not to include English as a Second Language course work).
 - Three years of college preparatory mathematics, e.g. Algebra I & II and Geometry; four units of college preparatory mathematics, including the equivalent of pre-Calculus, are required for entrance to College of Science and Engineering programs (except pre-science).
 - Two years of laboratory science; laboratory biology and chemistry are required for admission to the College of Nursing; laboratory chemistry and physics are required for entrance to engineering programs; laboratory chemistry and biology are required for entrance to the Bachelor of Science-Biology degree program.
 - Three years (equivalent) of social science and/or history.
 - Two years of a foreign language (the foreign language requirement may be waived if compensated with additional course work in English, social studies, laboratory science and/or mathematics)
 - Two additional electives from the above listed subject areas.
2. Results from either the ACT or the SAT I. Score reports must be sent directly from the testing agency.
 3. A choice of the following options to complement the home school transcript:
 - a) Results from the ACT *and*
 - SAT II subject scores *or*
 - Advanced Placement scores *or*
 - International Baccalaureate test scores in one of the social sciences or history and in a foreign language *or*
 - A transcript confirming completed respective collegiate social science/ history, and foreign language course work (e.g., at a community college or baccalaureate institution)
 - b) Results from the SAT I *and*
 - SAT II subject scores, *or*
 - Advanced Placement scores, *or*

- International Baccalaureate scores in one of the sciences, and one of the social sciences or history, and a foreign language *or*
 - Respective collegiate science, social science/history and foreign language course work (e.g., at a community college or baccalaureate institution)**
- c) Applicants for direct admission to the nursing major must submit results from:
- SAT II *or*
 - Advanced Placement *or*
 - International Baccalaureate examinations in biology and chemistry *or*
 - An official college transcript of completed course work in biology and chemistry
- d) Applicants for direct admission to engineering majors must submit results from:
- SAT II, *or*
 - Advanced Placement, *or*
 - International Baccalaureate examinations in advanced mathematics and chemistry, *or*
 - An official college transcript of completed course work in chemistry, physics, and advanced mathematics**
- e) Applicants for direct admission to biology majors must submit results from:
- SAT II, *or*
 - Advanced Placement, *or*
 - International Baccalaureate examinations in advanced mathematics and chemistry, *or*
 - An official college transcript of completed course work in biology, chemistry and advanced mathematics**

**The requirements outlined above may be completed through a combination of the options offered, (e.g., the SAT II in a subject, collegiate course work in another subject, AP or IB results in another subject).

4. Two letters of recommendation from individuals who are not relatives or guardians describing the applicant's preparedness for education in a university community environment.
5. An essay or personal statement.
6. An approved application form: the Common Application or the Universal College Application.
7. The Seattle University Supplemental Application.
8. A \$50 dollar application fee. This fee is waived for the children or grandchildren of Seattle University alumni, or for the nieces and nephews of Catholic clergy who are Seattle University graduates.

Early Action

Seattle University recognizes that many students have already determined where they will apply by the beginning of their senior year, so we offer an option for those who have identified Seattle University as one of their top choices. Early Action enables students to apply for early admission and receive early notification.

This is a non-binding option and those accepted will still be free to apply to other universities and compare financial aid offers. Those accepted through Early Action are not required to commit prior to the National Candidates' Reply Date of May 1.

Early Action candidates must check the early action option on either the Common Application or Universal College Application and submit all required credentials (Seattle University Supplemental Application, transcript, essay, letters of recommendation, ACT or SAT scores) by November 15. Those applying for Early Action will be mailed admissions notification on December 23. Students applying via Early Action and not offered admission will be placed in consideration for regular admission.

Early Admission

High school students with a grade point average of 3.30 or above (on a 4.00 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. Results from the ACT and ACT writing test, or the SAT I, and an admissions interview are required.

Placement Examinations

The respective departments administer placement tests in mathematics and modern languages 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

Transfer 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. Seattle University does not offer probationary acceptance to freshman applicants.

Running Start Program (Policy 92-1)

Students who have participated in a Washington state 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 credit policy under *Academic Regulations*.) 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 regardless of the number of transfer credits; and b) students attending college for the first time, regardless of when they graduated from high school.

Freshmen transfers are those who have graduated in any year other than the year of admission and have accrued one to 44 credits. Freshman Running Start students expecting to receive a direct transfer associate of arts or associate of science degree from a Washington state community college should consult the Admissions Office directly to plan their transfer accordingly.

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, and is in good standing at the last institution attended, may apply for admission with advanced standing at SU. Applicants for transfer admission must:

1. Submit an application for admission, and an application fee of \$50, payable to SU. (This fee is waived for applicants who have or will receive a direct transfer associate of arts or science degree from a Washington state community college immediately prior to intended enrollment at the university.) Completed transfer admissions applications must be received by the following deadlines:

Fall quarter	Aug. 15
Winter quarter.....	Nov. 15
Spring quarter	Feb. 20
Summer quarter	May 15

Some programs such as nursing, diagnostic ultrasound and business may establish earlier deadlines, so applicants should consult the Admissions Office directly to plan accordingly. Submit official copies of transcripts from each postsecondary institution attended. When applying for admission or readmission, failure to furnish all records from all postsecondary institutions attended, regardless of whether attempted course work 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.

(Note: Applications are not processed during Seattle University vacation breaks.)

2. Present a minimum 2.50 academic grade point average (or the minimum required by the specific school or college; consult appropriate sections of this *Bulletin*) for postsecondary work attempted prior to transfer. Several programs, including those offered through communication, psychology, the College of Nursing and the Albers School of Business and Economics require a minimum 2.75 cumulative GPA for admission consideration. Probationary admission could be an option with a 2.25 to 2.50 GPA. No transfer applicant will be admitted with a GPA below 2.25. Courses completed at a C- (or 1.5 GPA) are transferable to fill core 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 the secondary school unit requirements for freshman admission. In such cases, an official secondary school transcript must also be submitted.

Transfer students suspended or dismissed for academic and social reasons at other institutions are ineligible for admission unless one calendar year has lapsed 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 where academic standing is unknown or for work with private teachers, admission and advanced credit is granted only upon examination. Examinations to establish credit for such work can be taken only after the completion of 15 credits in residence. (See *Credit by Examination* section in this *Bulletin*.)

For guidance and registration, the academic evaluation unit in the Office of the Registrar completes tentative evaluations of transfer credit at the time of admission. Transfer policies are subject to approval by the provost and dean of the appropriate school. (See transfer credit policy under *Academic Regulations* in this *Bulletin* for more information.)

Other Admission Standings/Requirements

Special requirements apply for the following applicants:

Bilingual Students/Permanent Residents (Policy 76-6, 2008-01)

Applicants whose native language is other than English or for whom English is a second language must demonstrate English proficiency irrespective of their length of residency in the United States, their citizenship or their immigration status. Students must submit Test of English as a Foreign Language (TOEFL) results, International English Language Testing System (IELTS) results, Michigan Proficiency Test results or completed ELS Language Centers Level 112 in the U.S., unless they studied at a high school in the U.S., or an international school based on the U.S. system of ninth through 12th grades and have SAT scores of 450 or higher, or ACT English sub-scores of 22 or higher.

Elder Audit Program (Policy 97-7)

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

International Students (Policy 76-6)

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

Non-matriculated Students (Policies 82-2 and 92-2)

Admission as a non-matriculated student is allowed for the purpose of post-secondary or post-baccalaureate study that is not intended to culminate in a 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. 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 to have the credits apply toward program requirements. A maximum of 15 credits of courses taken at the non-matriculated level may potentially count toward an undergraduate degree. Completion of courses does not guarantee admission into a program of study.

Not all courses are open to non-matriculantes. 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 (typically, two weeks prior to 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)

Post-baccalaureate students seeking certificates, a second bachelor's degree or graduate program prerequisite course work must achieve an evaluated GPA of at least 2.50 to be considered for admission. The evaluated GPA is based upon the last 90-quarter credits of the bachelor's degree and any post-baccalaureate course work. The post-baccalaureate certificate program in pre-professional health studies has standards that vary from this policy. (See the College of Science and Engineering section in this *Bulletin* for more information.)

Readmission (Policy 76-10)

Students will continue to receive registration materials and will be eligible to register for the four consecutive quarters (including summer) after the last quarter of attendance. After this point, students must apply for readmission and will be subject to the requirements of their school, department and major in effect at the time of readmission. (Refer to the readmission policy in *Academic Regulations* in this *Bulletin*.)

Tuition, Fees and other Educational Expenses

By registering for classes at Seattle University, the student agrees to pay all applicable tuition, fees, room and board, and other university expenses such as late fees and library fines in accordance with university policies or as stipulated in this *Bulletin*.

Tuition Rates 2008–09

Seattle University has a flat tuition schedule for undergraduate students. The flat rate tuition for all full-time undergraduate students who are enrolled for 12–20 quarter credit hours is \$9,420 per quarter.

Full-Time Student Annual Tuition (12–20 credits per quarter)	\$28,260
Overload Tuition (for credits above 20 per quarter).....	\$628 per credit hour
Part-Time Tuition (1–11 credits per quarter)	\$628 per credit hour
Culture and Language Bridge (CLB)	\$628 per credit hour
Auditor's Tuition	\$196 per credit hour

Only full-time matriculated undergraduate students are eligible for flat-rate tuition. Non-matriculated and graduate students pay the per credit hour rate.

Flat-rate tuition is in effect only for fall, winter and spring quarters. Tuition for summer and intersession enrollment is charged at a per credit hour rate.

Course fees, including laboratory fees and private music lessons are not part of the flat tuition rate.

A \$200 confirmation deposit is required of all newly admitted undergraduate students. This **non-refundable** deposit will be applied to first quarter tuition.

Laboratory Fees 2008–09 (per course)

Nursing 306, 346	\$80
Nursing 308, 326, 345, 407, 427	\$170
Nursing 437	\$260
Private Music Lessons	\$95
Science and Engineering Laboratory Courses.....	\$90
Sport and Exercise Science 211, 231, 313, 321, 322, 331, 411	\$50

Testing Fees effective Spring 2008 (per course, subject to change)

Nursing 308	\$380
Nursing 332	\$92
Nursing 336, 344, 406, 426.....	\$66
Nursing 490	\$64

Other Fees (non-refundable per quarter) 2008–09

Undergraduate application (includes post-baccalaureate and non-matriculated)	\$50
Graduate applications (includes post-baccalaureate and non-matriculated)	\$55
Student Health Insurance (per year)	\$657
Credit by Examination (per credit hour)	\$95
Diploma Replacement	\$25
Identification Card (loss/replacement)	\$15
Administrative Withdrawal ("Z" grade)	\$100
Late Payment (see details later in this section)	\$100
Education Abroad Late Fee	\$125
(Submissions after Education Abroad Office deadline; \$250 for paperwork submitted after the start of the Education Abroad program)	
Matriculation (undergraduate and graduate)	\$95
Official Transcript (3-day service, 10 free per quarter, additional)	\$5
Official Transcript (same-day request)	\$25
Residence Hall Deposit	\$300
(Refundable if cancelled by Aug. 1)	
Validation of Field Experience (per credit hour)	\$95

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

Residence Hall Charges 2008–09

Room rates	Quarter	Academic Year
Bellarmine, Campion and Xavier Halls		
Triple Occupancy	\$1,490	\$4,470
Double Occupancy	\$1,755	\$5,265
Single Occupancy	\$2,365	\$7,095
Chardin Hall		
Double Occupancy	\$1,985	\$5,955
Single Occupancy	\$2,670	\$8,010
Kolvenbach		
Double Occupancy	\$1,755	\$5,265
Murphy Apartments	\$2,122–\$3,133	\$6,366–\$9,399

Students must submit a \$300 deposit with their housing application.

Meal plans

All Bellarmine, Campion, Chardin and Xavier Hall residents are required to purchase a meal plan. Freshmen and sophomores must purchase a meal plan at the Preferred Club level or higher for fall, winter and spring quarters. Juniors and seniors living in Bellarmine, Campion, Chardin or Xavier are required to purchase a meal plan at the Campus Club level or higher for fall, winter and spring quarters. The Preferred Club meal plan is recommended for most students. For more information on housing and meal plans, contact Housing and Residence Life at (206) 296-6305.

Meal Plans

Plan 1: Olympic Club	\$1,450	\$4,350
Plan 2: Diner's Club	\$1,225	\$3,675
Plan 3: Preferred Club	\$1,025	\$3,075
Plan 4: Campus Club	\$800	\$2,400
Plan 5: Convenience Club	\$650	\$1,950

Student Financial Services

Student Financial Services offers a myriad of services. These include student account statements; receipt of payments; answers to questions about student accounts; disbursement of financial aid; monitoring the repayment process and collection of loans and delinquent student accounts; processing time sheets for off-campus work study; collecting I-9 and W-4 forms for students working on campus; and coordinating work study placements both on and off campus. The office is open 9 a.m. to 6 p.m. Monday and Tuesday, and 9 a.m. to 4:30 p.m. Wednesday through Friday.

Tuition and Fees

The tuition and fees paid by students cover not only the direct costs of the classes they enroll in, but also library and health services, the student newspaper, student organization allotments, building funds and admission to athletic events.

Health Insurance

Seattle University requires that all full-time undergraduate students have health insurance. All undergraduate students are charged an insurance premium in the first quarter of full-time enrollment each academic year. Students who begin in winter or spring quarter will pay a prorated annual premium. Those who can provide evidence of coverage in Washington state through an existing health insurance program can request a waiver of coverage. To waive the insurance and fee, students provide policy information at SU Online by clicking on Access Student Menu, and then Student Insurance Conformation.

Confirmation of comparable health insurance must be received before registration and by the last day to add and/or drop classes. Refunds are not granted for proof of insurance that is submitted after the last scheduled day to add and/or drop classes for the first full-time quarter of the year.

Official Withdrawal

A student is responsible for payment of all fees related to courses for which the student has registered, whether or not the student physically attended the courses. Any reduction or refund of tuition is based on the date the student withdrew from a course.

The official date of a student's withdrawal is the date of the first signature by any official of the university on the withdrawal form or the last date of attendance, as verified by the instructor, whichever is earlier.

Tuition Due Dates 2008–09

Tuition and fees are due and payable within 14 days of registration or the scheduled due date, whichever is later:

Fall quarter.....	Sept. 15
Winter quarter	Dec. 15
Spring quarter	March 15
Summer quarter	June 15

Payment Methods

Seattle University provides a number of payment options to accommodate specific needs for paying the balance on your student account:

1. **Pay by Mail:** Send your payment to Seattle University, Student Financial Services, 901 12th Avenue, PO Box 222000, Seattle, WA 98122-1090. Be sure to include your student ID number or social security number on your check or money order.
2. **Pay Online:** Pay using VISA, MasterCard or electronic check through SU Online. If you use a credit card to make your payment, a 2.5 percent service fee will automatically be added to your payment amount. There is no fee for making an electronic check payment. As a new student, you will receive your SU login instructions for SU Online in the packet of information you receive when you are admitted.
3. **Pay by Drop Box:** Place your check in the "24/7 Forms Drop" box located across the lobby from the Student Financial Services windows and adjacent to the elevator in the University Services Building. This drop box is accessible 24 hours a day and is secure and emptied daily.
4. **Pay in Person:** Visit Student Financial Services in Room 105 of the University Services Building, 9 a.m. to 6 p.m. on Monday and Tuesday, and from 9 a.m. to 4:30 p.m. Wednesday through Friday.
5. **Sign Up for a Payment Plan:** See the "Payment Plan Options" section below.

Payment Plan Options

Payment Plan A: Nine Installment Annual Plan

If you will be registering for consecutive fall, winter and spring quarters, you are eligible to sign up for an annual nine-month payment plan through Seattle University. If you will enroll for less than these three quarters, you cannot use Payment Plan A and should instead look at Payment Plans B and C below to determine the plan that best suits your needs. Payment Plan A is an excellent way to plan ahead for tuition costs and spread your payments over the course of the academic year, thereby providing lower monthly payments instead of large lump sum payments at the start of each quarter. This is not a loan and there is no interest charged. The only additional fee is a \$50 non-refundable enrollment fee.

This plan takes the estimated total cost for fall, winter and spring quarters, less verified financial aid (excluding any work-study), and divides the remaining balance into nine monthly installments. Payments are due on the first of each month, beginning Oct. 1 and ending on June 1. Applications, accompanied by the \$50 non-refundable enrollment fee, must be submitted no later than Sept. 15.

If you are a new first-term student, the application for this plan is included with the Registration and Payment Invoice that is mailed to you before the start of your first term at Seattle University. After your first term, you become a continuing student and, in place of a paper invoice, receive instead an e-mail notification to your SU e-mail address that your invoice is available for viewing at SU Online. To get the payment plan application, go to our website, seattleu.edu/sfs select Printable Forms from our Quick Links menu and then select Payment Plans.

Once we receive your completed application and the \$50 non-refundable enrollment fee, we will send a payment schedule to whoever you designate as the "Bill Payer" on your application, outlining the monthly installment amounts. Keep in mind that if you apply before Aug. 1, these schedules are not mailed until August. If you apply on or after Aug. 1, please allow at least two weeks for us to process your application and mail the payment schedule. If you receive your payment schedule after the first payment is due, you must also send in any missed payments as of the date you receive the payment schedule. If you are late for two consecutive payments, you are cancelled from the plan, the remaining amount due for the current quarter becomes immediately past due and payable in full, and future registration is blocked unless/until your student account is brought current.

Payment Plan B: Three Installment Quarterly Plan

This is a three-month payment plan for which you must apply each quarter. One-third of the balance due on your student account plus a \$30 non-refundable enrollment fee is due on the student account balance due date. Another third is due on the 15th of the following month and the remaining balance is due on the 15th of the following month. Payment Plan B due dates are given below.

If you are a first-term new student, the application for this plan is included with the Registration and Payment Invoice that is mailed to you before the start of your first term at Seattle University. After your first term, you become a continuing student and, in place of a paper invoice, will receive an e-mail notification to your SU e-mail address that your invoice is available for viewing at SU Online. To get the payment plan application, go to our website, seattleu.edu/sfs, select Printable Forms from our Quick Links menu and then select Payment Plans. The deadline to submit the application, \$30 non-refundable enrollment fee and one-third of the balance due on your student account is the due date shown on your quarterly Registration and Payment Invoice.

Payment Plan B Due Dates:

	Fall	Winter	Spring
Payment 1	Sept. 15	Dec. 15	March 15
Payment 2	Oct. 15	Jan. 15	April 15
Payment 3	Nov. 15	Feb. 15	May 15

Payment Plan C: Deferred Quarterly Single Payment Plan

This quarterly plan defers payment of the balance due on your student account until the last day of the month following the scheduled student account balance due date. An application must be submitted for each quarter you want to use this plan. The balance on your student account is due by the date shown below.

If you are a first-term new student, the application for this plan is included with the Registration and Payment Invoice that is mailed to you before the start of your first term at Seattle University. After your first term, you become a continuing student and, in place of a paper invoice, will receive an e-mail notification to your SU e-mail address that your invoice is available for viewing at SU Online. To get the payment plan application, go to our website, seattleu.edu/sfs, select Printable Forms from our Quick Links menu and then select Payment Plans. The deadline to submit the application and \$30 non-refundable enrollment fee is the student account balance due date shown on your quarterly Registration and Payment Invoice.

Payment Plan C Due Dates:

Fall	Winter	Spring
Oct. 31	Jan. 31	April 30

Payment Plan E: Employer Paid Tuition Deferred Payment Plan

If you will receive tuition reimbursement through your employer after coursework is completed and grades are posted, you can elect to sign up for this payment plan, which defers payment of tuition and fees until 30 days after grades are available at the end of the term. There is a \$30 non-refundable enrollment fee. To get this form, visit seattleu.edu/sfs, select Printable Forms from our Quick Links menu and then select Payment Plans. The deadline to submit the application and \$30 non-refundable enrollment fee is the student account balance due date.

Seattle University reserves the right to change its charges at any time without notice. Questions about student accounts, payment methods or the payment plans should be directed to Student Financial Services at (206) 296-2000, 9 a.m. to 6 p.m. Monday and Tuesday, and 9 a.m. to 4:30 p.m. Wednesday through Friday.

Late Payment/University Collection Fee

A late fee of \$50 per month (up to a maximum of \$100) will be assessed on any unpaid balance remaining after the tuition due date. Students with an outstanding balance after a final demand letter for payment has been sent will be assessed a collection fee of \$100 in addition to the late fees.

Exceptions to this policy will be made only if:

- Payment arrangements for the term's charges have been made with Student Financial Services by the term's tuition due date. If the requirements of the plan are not met, all applicable late fees will be applied retroactively.

- An institutional error results in delays in the application of financial aid.

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

Finance and Service Charges

By registering for or withdrawing from classes at the university, a student agrees to pay their account in full by the due dates established by the university. Additionally, the student agrees to pay a 1 percent per month finance charge (12 percent APR) that may be assessed on unpaid balances, including finance charges previously assessed, and all service fees and late fees established by SU.

A service fee of \$25 will be charged for all checks not honored by the bank and returned unpaid. 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. Students with two or more dishonored personal checks will no longer be allowed to submit a personal check as a form of payment.

Past-Due Accounts/Collection

A student's failure to pay in full all tuition and other fees for any quarter or session by the specified due dates will result in a restriction being placed on the student's academic transcript and the student will be prohibited from future registration. 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, collection 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 will be charged to the student's account. By registering for classes, a student agrees to pay tuition and other charges and fees as well as any fees associated with collection.

Tuition Refunds (Policy 75-9)

Refunds are based on the official date of withdrawal. See the quarterly schedule of classes for specific dates. A refund to financial aid recipients is applied first to financial aid sources and the balance, if any, is remitted to the student. Loan proceeds are returned directly to the lender. Student Financial Services will issue a check for any credit balance. Petitions for tuition adjustment and fee waivers will be approved only to correct a university error.

Tuition Refund Policy

Official withdrawal (full or partial) fall, winter or spring quarters:

Through the last day of Add/Drop	100 percent
Through the second Saturday after the first Monday of the term.....	75 percent
Through the third Saturday after the first Monday of the term	50 percent
Thereafter.....	No refund

Official withdrawal (full or partial) summer term:

Four-week and intersessions:

Through the last day of Add/Drop	100 percent
Thereafter.....	No refund

Seven- and eight-week sessions:

Through the last day of Add/Drop.....	100 percent
Through second Saturday.....	50 percent
Thereafter.....	No refund

Short courses (any session not listed above) will be refunded at 100 percent if withdrawal occurs on or before the first day the class meets. No refund thereafter.

Overpayment of Account (credit balance)

Credit balances created by financial aid, tuition adjustments or overpayment will be remitted to the student. Credit balance checks will either be electronically deposited to the student's checking account, if direct deposit has been authorized, or sent to the student's mailing address as listed on SU Online. Students may elect to have credit balance amounts transferred electronically to their checking account by filling out a Direct Deposit Authorization and submitting it with a copy of a voided check to Student Financial Services. The application is available at www.seattleu.edu/sfs under Printable Forms in the Certifications, Authorizations and Access Permissions category. Once a student signs up, all refunds will be deposited directly to the designated checking account for availability beginning on the first day of classes each quarter. There is a 14-day confirmation period after the student submits the form before transactions may occur.

Electronic transfers or checks will be issued to students automatically in the following situations:

- There is a credit balance on the student account for the current term due to excess payments or reduced charges;
- No other balances are due to the university;
- The student meets all requirements to receive the aid that creates the credit balance;
- A "Parent PLUS" loan is not part of the financial aid award; or
- All check and credit card payments were made more than seven days prior.

Students who do not meet any of the above criteria must either:

- a) Contact Student Financial Services for resolution; or
- b) Have appropriate checks issued after review and approval (minimum five-day delay).

Additionally, students who expect a refund after their student account balance has been paid may elect to transfer a partial amount of that refund to their Campus Card, which can then be used to purchase books and supplies at the SU Bookstore, or for parking permits, copies or snacks and beverages. To take advantage of this program, a student's financial aid needs to be finalized 30 days prior to the start of the quarter to enable access to these funds on the first day of classes for the quarter.

The Campus Card Deposit Authorization is available at www.seattleu.edu/sfs by clicking on Printable Forms under Quick Links and then on the Certifications, Authorizations and Access Permissions category. Submit the completed form to Student Financial Services and allow a minimum of two weeks for processing to have funds available on the first day of each quarter.

NOTE: Federal regulations require Seattle University to forward Title IV financial aid resulting in a credit balance to the student within 10 days. We encourage students to establish direct deposit for the most efficient transfer of funds. If direct deposit has not been authorized and established, financial aid refund checks will be sent by mail to the student's mailing address shown in SU Online.

Financial Aid

Seattle University offers a variety of strategies and resources to assist eligible students in meeting the costs of their education. Approximately 78 percent of undergraduate students receive assistance through grants and scholarships, work-study opportunities and low-interest student loans. Although most financial aid comes from the state and federal governments, SU also contributes. To be eligible for state and federal aid programs, and most Seattle University institutional aid, students must be U.S. citizens or permanent residents.

The amount and types of financial aid a student receives are based on several criteria, including financial need, academic achievement and leadership accomplishments. There are primarily two types of financial aid: need-based and non-need-based. Need-based aid is awarded after a comprehensive review of the family's income and assets and may be a combination of grant, work-study and/or loans. Non-need-based aid is awarded to a student based on various criteria including academic performance, overall achievements and/or extracurricular activities.

Application Procedure

1. Apply and be admitted as a degree- or certificate-seeking student. Students who submit all admission materials by Feb. 1 are given priority consideration for financial aid.
2. Complete and submit the Free Application for Federal Student Aid (FAFSA) online at fafsa.ed.gov on or after Jan. 1 and before Feb. 1. We encourage both the student and a parent to apply for a Personal Identification Number (PIN), which can then be used to sign the FAFSA electronically. A PIN can be secured prior to completing the FAFSA by going to pin.ed.gov. It can also be secured from within the FAFSA application. Indicate that the FAFSA processor should send results to Seattle University by entering SU's Federal School Code—003790—in the appropriate section.
3. All new freshmen and their parents, if they were required to provide information on the student's FAFSA, are required to submit signed copies of their 2007 tax form and supporting schedules and W-2s if the student wants to be considered for need-based aid. Continuing students selected for verification by the federal processor, and their parents if they were required to provide information on the student's FAFSA, must submit signed copies of their 2007 tax form and supporting schedules and W-2s if the student wants to be considered for need-based aid.
4. Based on a review of submitted materials, some students may be asked to provide additional documents.
5. New students may receive a financial aid award indicating the types and amounts of financial aid they appear eligible to receive before all materials have been submitted and reviewed. In these cases, the award is tentative until all materials have been received and reviewed. If that review results in a change in the expected family contribution that is large enough to change the student's aid eligibility, a revised award letter will be sent to the student. New students are required to provide a \$200 deposit to the Admissions Office by May 1 to secure their place.

NOTE: Students must reapply each year for need-based financial aid. Continuing students will not receive an award letter until all required documents have been received and reviewed. To help facilitate the process, students and parents are encouraged to keep a file of all information submitted, including a copy of the FAFSA.

Eligibility for Federal Student Aid

Applicants for federal financial aid including the Federal Pell Grant, Federal Academic Competitiveness Grant (ACG), Federal National Science and Mathematics Access to Retain Talent (SMART) Grant, Federal Perkins Loan, Federal Supplemental Educational Opportunity Grant (SEOG), Federal Work Study, Federal Direct Stafford Loan, Federal Direct Parent Loan or any other federal aid must meet all federal aid program requirements including the following criteria:

- Demonstrate financial need and/or have some portion of their cost of attendance that is not covered by financial aid.
- Have a high school diploma or a GED.
- Enroll as a regular student in a degree or certificate program.
- Be a U.S. citizen or eligible non-citizen.
- Maintain satisfactory academic progress as described later in this text.
- Not be in default on a student loan or under obligation to repay federal or state aid.
- Be registered with Selective Service, if required.
- Not be disqualified for assistance due to conviction for possession or sale of illegal substances.

Students with bachelor's degrees are not eligible to receive the federal grants listed above. Because funding sources are limited, students enrolled in an undergraduate program for fewer than half-time (six) credits generally only receive Federal Pell Grants (if eligible).

Deadlines

To be given priority for need-based financial aid funding, students must submit the FAFSA on or after Jan. 1 and by Feb. 1. Funding is awarded on a rolling basis and students who submit the FAFSA after Feb. 1 will be awarded any remaining funding, on a funds-available basis, after those students who met the Feb. 1 deadline have been awarded.

To ensure funding will be available *at the start* of the quarter, students should complete the documentation required to support their application for financial aid by these dates:

Fall Quarter	Aug. 15
Winter Quarter	Nov. 15
Spring Quarter	Feb. 15
Summer Quarter	June 1

To receive any funding during the quarter, students must complete the documentation required to support their application for financial aid by these dates:

Fall Quarter	Nov. 1
Winter Quarter	Feb. 1
Spring Quarter	April 16
Summer Quarter	June 30

Financial Aid Programs

To the extent possible, based on both a student's eligibility and the availability of funding, Student Financial Services combines different types of financial aid programs to create a financial aid award. The university is required by law to coordinate the various resources a student may receive from all federal, state, private and institutional sources. The strategies used to award financial aid are based on the fundamental premise that the primary responsibility for financing an education rests with the student and his or her family. The university provides assistance to help meet the difference between the cost of education and the family's Expected Family Contribution (EFC) that is calculated using a congressionally-mandated formula from the information the student and his or her family report on the FAFSA. A student's award can be a combination of federal, state, private and institutional financial aid programs.

Generally, the maximum amount of all resources may not exceed the cost of education established by the university. The cost of education is revised annually and includes tuition, room and board, books, supplies, transportation and various personal expenses. Students with unusual expenses may qualify for an adjustment to the standard cost of attendance. For need-based recipients, financial aid cannot exceed demonstrated need. Demonstrated financial need is defined as the cost of education less the EFC.

Gift Aid Guarantee

New undergraduate aid recipients at SU are given a Gift Aid Guarantee. As continuing students they must complete the FAFSA every year to be considered for need-based aid and should receive the same level of gift assistance (grants and institutional scholarships) each subsequent year provided they maintain full-time, continuous enrollment and satisfactory academic progress. While types and/or amounts of individual grants and scholarships may vary, the total dollars in gift aid awarded to a student should equal the amount received in the prior year. Students must be continuously enrolled at Seattle University to retain their Gift Aid Guarantee (e.g., if a student leaves Seattle University for two quarters and then returns, they will lose the guarantee made to them upon admission.) The Gift Aid Guarantee for incoming freshmen is for four years, or 12 quarters, and covers one degree with one major. The guarantee to undergraduate transfer students is for the years remaining to expected degree completion based on the class standing assigned by the Office of the Registrar on admission. A transfer student who is admitted as a junior, for instance, has a maximum Gift Aid Guarantee of two years (six quarters).

Grants and Scholarships

Grants and scholarships are funds that 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. Generally students must be enrolled full time each quarter in a degree program to be eligible (see the academic progress policy in the *Academic Regulations* section of this *Bulletin*). 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. The university strongly recommends that scholarship recipients work no more than 20 hours per week while school is in session.

Grants and scholarships help undergraduate students obtain a first bachelor's degree. Post-baccalaureate students seeking an additional undergraduate degree are generally not eligible for institutional grants and scholarships except for a scholarship in the College of Nursing. International students are eligible to receive Washington Articulation,* Bannan, Naef, Athletic Scholarships and academic scholarships selected by the Office of Undergraduate Admissions.

*Students who enter Seattle University through the Culture and Language Bridge Program and not eligible for the Washington Articulation Scholarship.

Institutional Awards

Sullivan Leadership Awards are awarded to incoming freshman with exceptional leadership potential and demonstrated active leadership in high school. Each year the university awards Sullivan Leadership Awards, which cover tuition and room and board for four years, or 12 quarters, to nine outstanding students. Applications are distributed by the Office of Admissions in the early fall. In November, qualifying semi-finalists are invited to campus to participate in the first round of selection. Approximately 45 finalists are invited back during winter quarter to present a speech and interview with the selection committee.

Presidential, Trustee and Champion Scholarships and the American School Partnership Scholarship are awarded to freshmen entering in the fall quarter who demonstrate high academic achievement. The Office of Admissions reviews the student's application materials to determine eligibility. Awards for students entering in Fall 2008 range from \$8,000 to \$18,500, are available for tuition, and are renewable provided a student maintains full-time, continuous enrollment and satisfactory academic progress as defined later in this text.

Ignatian Scholarships are awarded to entering scholarship recipients who attended a Jesuit high school and demonstrate high academic achievement.

Transfer Trustee and Loyola Scholarships are awarded to transfer students entering in the fall quarter. The Office of Admissions reviews the student's application materials to determine eligibility. Awards for Fall 2008 range from \$7,000 to \$10,500, are for tuition, and are renewable provided a student maintains satisfactory academic progress as defined later in this text.

Washington Articulation Scholarships are automatically awarded to student with cumulative GPAs of 3.50 or higher at the time of admission who have or will have as-

sociate of arts or associate of science degrees from a Washington State community college and are transferring directly to Seattle University. These awards are \$11,000 per year for two years—six consecutive quarters, excluding summer quarters—of full-time enrollment. Students who enter Seattle University through the Culture and Language Bridge Program are not eligible for the Washington Articulation Scholarship.

Regent's Awards help cover tuition for entering students from underrepresented populations.

Honors Scholarships are awarded to help cover tuition for entering students enrolling in the Honors Programs.

Bannan Scholarships help cover tuition for students in degree programs in the College 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 College of Science and Engineering.

SU Grants are awarded to students who demonstrate financial need. To be eligible, a student must be full time and maintain satisfactory academic progress as defined later in this text. Seattle University also offers a variety of other grants and scholarships to students who participate in debate, ROTC, athletics, student government, the campus newspaper and music programs.

Endowed and Restricted Scholarships are made possible through the generosity of numerous benefactors and friends of the university. These generous gifts help the university to maintain the gift aid guarantee made to incoming students in subsequent years. Each year, more than 100 scholarships are available to qualified students to help meet tuition expenses. In most cases, the applicant must have a minimum 3.00 GPA and be enrolled full-time in a specific program. No application is required for these scholarships because Student Financial Services annually reviews the need and academic standing and progress of all students to identify qualified applicants. For more information, contact Student Financial Services at (206) 296-2000.

Recipients of any institutional grant or scholarships are required to complete the FAFSA form each and every year.

Federal and State Grants

Federal Pell Grants are available to undergraduate students with the fewest available resources. This grant is intended to serve students with the highest need.

Federal Academic Competitiveness Grants (ACG) are available for the first two years of postsecondary study to qualifying full-time Federal Pell Grant recipients who completed a federally approved rigorous high school curriculum.

Federal National Science and Mathematics to Retain Talent (SMART) Grants are available to qualifying full-time third and fourth year Federal Pell Grant recipients who have a declared major in federally approved areas of study in science, technology, mathematics or foreign language.

Federal Supplemental Educational Opportunity Grants (SEOG) are available to Pell Grant recipients with exceptional financial need.

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

Washington State Educational Opportunity Grants are available to entering transfer students who have earned 90 transferable credits and meet the program's other criteria.

ROTC Scholarships are available to students in the Army, Navy and Air Force ROTC programs at SU.

For more information contact the following:

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

Navy—Professor of Naval Science, University of Washington, (206) 543-0170.

Air Force—Unit Admissions Officer in Aerospace Studies, University of Washington, (206) 543-2360.

The Survivors' and Dependents' Educational Assistance Program provides financial support to spouses and dependents of disabled or deceased veterans under terms of the GI Bill. For more information, contact the Veterans Administration or the Veterans Counselor in Student Financial Services.

Veterans' Education Benefits are available to qualified veterans enrolled in academic programs at the university as approved by the Washington State Higher Education Coordinating Board's State Approving Agency (HECB/SAA), under Title 38 and Title 10 of the U.S. Code.

Work Study

Work-study positions are available on campus and in the community to help students earn funds to meet their educational expenses. Students are awarded work study as part of their financial aid award. Students select jobs from the listings available under Employment Opportunities at suonline.edu. Students are not guaranteed positions; however, Student Financial Services staff are available to assist students seeking work. Students receive their pay for hours worked after the start of the quarter, and therefore will not be able to rely on work-study funds at the start 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, off-campus employment—up to 19 hours per week—to upper-division students. To qualify, a student must demonstrate financial need. Priority is given to Washington residents.

Loans

Low-interest federal student loans are awarded as part of a student's financial aid award. Students whose financial need is not fully covered by other financial aid or who need funds to replace some or all of their expected family contribution may apply for private educational loans.

Federal Perkins Loans are long-term, low-interest student loans based on financial need. 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 percent and repayment occurs over a 10-year period. Deferment and cancellation options are available.

The Federal Direct Loan programs offer long-term, low-interest loans awarded to students—Federal Direct Subsidized and Unsubsidized Stafford Loans—and/or parents—Federal Direct Parent PLUS Loan. Generally, Federal Direct Loans are disbursed in equal payments based on the number of terms a student is enrolled during the academic year. If a student plans to attend three terms the loan will be disbursed in three equal payments at the beginning of each quarter. Students must be enrolled at least half-time—six credits for undergraduate students—each quarter to receive these loans.

There are two types of Federal Direct Stafford Loans: Federal Direct Subsidized Stafford Loans and Federal Direct Unsubsidized Stafford Loans.

Federal Direct Subsidized Stafford Loans are need-based loans. Interest for 2008–09 will be at a fixed rate of 6 percent. Interest does not accrue and principal payments are not required as long as a student is enrolled at least half time (six credits for undergraduate students). Repayment begins six months after a student drops below half-time enrollment. For 2008–09, eligible dependent freshmen may receive up to \$3,500 per year; eligible dependent sophomores up to \$4,500 per year; and eligible dependent juniors and seniors up to \$5,500 per year.

Students are charged a fee of approximately half (.50) percent that is deducted from each loan disbursement. This represents the loan origination fee less a rebate for on-time payments in the future.

Federal Direct Unsubsidized Stafford Loans are non-need-based loans with a fixed interest rate of 6.8 percent and many of the same terms and conditions as the Federal Direct Subsidized Stafford Loan. Under this program, however, the student borrower is responsible for interest that accrues while he or she is enrolled in school. There is an option of deferring payment of that interest until the loan enters repayment. For dependent students, the annual limits of the combined subsidized and unsubsidized loans cannot exceed the amounts listed above. Independent students are eligible to borrow up to an additional \$4,000 for freshmen and sophomores, or \$5,000 for juniors and seniors. The combined, aggregate maximum students may receive in both types of loans, subsidized plus unsubsidized, is \$23,000 for dependent undergraduates and \$46,000 for independent undergraduates.

Federal Direct PLUS Loans are non-need-based loans available to the parents of dependent undergraduate students. The interest rate is 7.9 percent for the 2008–09 school year. The origination fee of approximately 2.5 percent will be deducted from the awarded amount before the loan is disbursed. Repayment begins 60 days after the loan is fully disbursed for the academic year. For an academic year loan for three quarters, this means repayment would begin 60 days after the spring quarter disbursement in March.

Federal Nursing Loan funds are available each year in limited amounts. This need-based loan is awarded to junior, senior and post-baccalaureate nursing students. It has a fixed interest rate of 5 percent and interest does not begin to accrue until repayment begins nine months after a student leaves school or drops below half-time enrollment. Deferment and cancellation options are available. As Seattle University is the lender, no separate application is required.

Private Educational Loans are non-need-based loans available to both student and parent borrowers. The interest rate is variable. Interest accrues while students are in school. The lender will perform a credit check. Most student borrowers will be required to have a co-signer for the loan. Students may borrow up to the total cost of attendance, less

any financial aid. Some private educational loans do not require certification of costs by Seattle University. As these loans tend to be more costly, it is strongly recommended that federal student loans or other private educational loans be considered as well.

Undergraduate Summer Financial Aid Policy Statement and Availability of Funding

The university does not offer institutional, federal or state aid over the summer if providing the aid will reduce or jeopardize the amount of aid available to meet costs during the regular academic year. If undergraduate students elect to attend SU during the summer, they will be considered for federal funding only if they will graduate early—by the end of winter quarter—during the academic year. In these cases, students will be considered for Federal Pell Grant, Federal SMART Grant, Washington State Need Grant, loans and/or work study. They will not be considered for institutional funding. Students who will not graduate early will be considered only for work study and state grant funding. Additionally, parents of undergraduate students may apply to borrow PLUS Loans and a student not graduating early may borrow private educational loans to help cover summer costs. For financial aid consideration, students must complete a summer aid application, in addition to the FAFSA form, and submit it to Student Financial Services.

Satisfactory Academic Progress Policy

Federal regulations mandate that you must make satisfactory academic progress toward completing your degree in order to receive federal financial aid. This requirement applies to your entire period of attendance at Seattle University, even though you may not have received financial aid for some periods of enrollment. Satisfactory progress is currently reviewed at the end of each spring quarter. While you will be notified if you have not maintained satisfactory progress, it is your responsibility to monitor your own progress.

You must pass the number of credits for which you received financial aid, based on the Enrollment Status line of your award letter and the chart below:

UNDERGRADUATE STUDENTS:

Full-time:	12 credits each quarter
3/4-time:	nine to 11 credits each quarter
1/2-time:	six to eight credits each quarter

GRADUATE STUDENTS:

Full-time:	six credits each quarter
3/4 time:	N/A
1/2-time:	three to five credits each quarter

If you receive an SU academic scholarship—including the Sullivan Leadership Award, Presidential, Trustees, Ignatian, Champion, Loyola, Bannan, Bellarmine, McGoldrick, Bannan, Sperry Goodman, Naef and Honors Scholarships—you must pass at least 45 credits at Seattle University during the academic year. If you receive the Regents Award, an Athletic Grant and/or a Seattle University Grant, you must pass at least 36 credits at Seattle University during the academic year.

Grades of "I" (incomplete), "W" (withdrawal), "HW" (hardship withdrawal), "LW" (petitioned late withdrawal), "F" (failed, including unsatisfactory), "M" (grade not received from instructor), "CR or NC" (the results of credit by examination), "N" (no grade), "Z" (administrative withdrawal), ungraded and "Y" (audited class) do not count as "passed" credits.

As an undergraduate, you must have attained a cumulative GPA of at least 2.0 by the end of your second academic year, and by the end of each subsequent academic year. If you receive one of the academic scholarships listed above, you must maintain a cumulative GPA of at least 3.0 each academic year to maintain scholarship eligibility. If you receive an Arrupe Scholarship, Regents Award, Athletic Grant and/or Seattle University Grant, you must maintain a cumulative GPA of at least 2.0 each academic year to maintain your continued eligibility for these funds.

As a graduate student, you must maintain a cumulative GPA of at least 3.0.

Grades earned at other schools, the results of credits by examination, "M" (grade missing), "N" (no grade) and "Y" (audited class) are not used to compute your SU grade point average.

If you are an undergraduate student, the maximum number of attempted credits that will be funded by Federal and State financial aid is 270. This includes all credits earned from all institutions that you have attended since high school. If you are a graduate student, you are eligible to receive financial aid until you have attempted a maximum of 150 percent of the minimum number of credits required for your degree, or completed all the course work required to receive your degree. Incomplete grades, withdrawals, failed classes and repeated courses count toward maximum credits attempted.

If you receive a Washington State Need Grant and/or receive Washington State Work Study, you must complete the number of credits for which you were awarded or you will be placed on probation. Failure to complete at least 50 percent of the credits attempted each quarter—six credits as a full-time undergraduate student; three credits as a full-time graduate student—will result in the cancellation of subsequent disbursements. Progress is monitored at the end of each quarter for these two programs.

If you are an Alaska State Loan undergraduate borrower, you must enroll for at least 12 credits per quarter and maintain a minimum 2.0 cumulative GPA. If you are a graduate borrower through this program, you must enroll for at least six credits per quarter and maintain a minimum 3.0 cumulative GPA.

If you fail to meet satisfactory progress standards, you may appeal based on special circumstances that prevented normal progress. An appeal must be submitted in writing and include a statement or explanation of the special circumstances that prevented you from passing sufficient credits, achieving an acceptable grade point average or completing a degree within the maximum time frame, including supplemental documentation to support your case and an explanation of how the difficulty has been overcome and why renewed progress is now anticipated. In the case of the maximum time frame requirement, you should include a letter of support and degree completion plan from an academic advisor. Keep in mind that, in general, pursuit of a second major or degree or failure to meet other standards of progress does not warrant an exception to the policy. You may also appeal to rectify deficiencies through a summer contract to take coursework without the benefit of Seattle University sponsored assistance in the summer. Note that your grade

point can be raised to the minimum required level only through coursework taken at Seattle University.

The counseling staff in Student Financial Services evaluates all appeals. You should contact your assigned counselor or stop by the office to see a walk-in counselor if you have questions or want to initiate an appeal.

Cost of Attendance 2008–09

Seattle University uses the following figures in determining a full-time student's annual cost of attendance:

Living on Campus

Tuition	\$28,260
Room	\$5,265
Board	\$3,075
Books and supplies	\$1,350
Transportation	\$1,527
Personal	\$2,145
Average loan fee	\$66
Total	\$41,688

Living Off Campus with Parents

Tuition	\$28,260
Room	\$1,918
Board	\$1,155
Books and supplies	\$1,350
Transportation	\$1,527
Personal	\$1,077
Average loan fee	\$66
Total	\$35,353

Dropping or Withdrawing from Some, But Not All, of Your Classes

If you drop or withdraw from some, but not all, of your classes at Seattle University, adjustments may need to be made to your financial aid depending on several factors. Therefore, while general information about dropping or withdrawing from classes is given below, we strongly encourage you to contact a financial aid counselor in Student Financial Services **before** you actually drop any classes.

In general, if you drop or withdraw from some of your classes **after** classes begin, but are still enrolled for at least one credit, and your federal and/or state financial aid has been transmitted to your student account, that aid will not be affected for the quarter in progress as long as you met the original eligibility requirements. However, if you drop one or more classes during the add/drop period, your institutional aid for the quarter will be withdrawn if you drop below full-time. Thereafter, your institutional aid will be reduced proportionally to the reduction in credits and the tuition refund level in effect at the time you drop. Any credit balance that results from dropping or withdrawing from classes will

be refunded to you. However, keep in mind that because your eligibility to receive financial aid in subsequent quarters may depend on the number of credits you pass in the quarter in progress—and classes you drop or from which you withdraw don't count as passed—dropping or withdrawing from classes may affect your eligibility to receive financial aid in the future.

In general, if you drop or withdraw from some of your classes **before** you have established eligibility for aid, but are still enrolled at least half-time—six credits or more as an undergraduate student; three credits or more as a graduate student—your financial aid will be revised based on your new enrollment status. Again, keep in mind that because your eligibility to receive financial aid in subsequent quarters may depend on the number of credits you pass in the current quarter—and classes you drop or from which you withdraw don't count as passed—dropping classes may affect your eligibility to receive financial aid in the future.

In general, if you drop below half-time enrollment—less than six credits as an undergraduate student; less than three credits as a graduate student—**before** you have established eligibility for aid, most or all of your financial aid will be canceled. You will, nonetheless, want to come in to talk with a financial aid counselor in Student Financial Services **before** you drop to less than half-time to be sure you understand the consequences on the off chance that your circumstances are not usual.

Dropping or Withdrawing From All of Your Classes

If at some point you find you are thinking about dropping or withdrawing from all of your courses for the quarter, here is information about how your financial aid—the amount you will receive, the amount that will be withdrawn and returned and your future eligibility—will be affected. Because additional, individual circumstances and information vary widely from student to student, we strongly encourage financial aid recipients to see a financial aid counselor in the Student Financial Services Office **before** actually dropping or withdrawing from all classes for the quarter.

First of all, aid for subsequent quarters will be canceled unless you notify our office that you plan to return.

You may need to make up credits for the quarter from which you withdrew in order to receive aid again from Seattle University in the future. Be sure to refer to the Satisfactory Academic Progress Policy in this booklet for more information.

The official date of your withdrawal will be the date of the first signature of a university official on the withdrawal form or the last date of attendance as documented on the withdrawal or grade form, whichever is earlier. If you begin attendance but cease to attend classes without notifying the University and your last date of attendance is not documented, the required return of financial aid will be based on attendance for 50 percent of the quarter and you will not be eligible for a tuition refund.

Student Financial Services will determine your eligibility for a refund of charges for the quarter based on your official date of withdrawal as described above. Be sure to refer to the published academic calendar for refund periods and amounts.

According to federal regulations, federal funds must be returned to federal programs based on the percent of the term remaining after you are no longer enrolled unless you have completed more than 60 percent of the term. If you have completed more than 60 percent of the term, no return of federal funds is required. If you have completed 60 percent or less of the term, the Student Financial Services Office will determine how much of your federal aid was unearned as defined in federal regulations, and then return the unearned aid in the following order:

- Federal Direct Unsubsidized Stafford Loan
- Federal Direct Subsidized Stafford Loan
- Federal Perkins Loan
- Federal Graduate PLUS Loan
- Federal PLUS Loan
- Federal Pell, Academic Competitiveness and National SMART Grants
- Federal Supplemental Educational Opportunity Grant (SEOG)
- Other Title IV Programs

Seattle University is required to return, on your behalf, the balance of unearned aid to the federal programs. Work-study funding is not included in the calculation that determines your refund and you will not be required to repay any work-study payments you've received for hours you have worked. You will be responsible for repaying, in accordance with the terms of your promissory note, any balance owed on the federal student loans disbursed to you that are not required to be returned by the university.

If you have received federal student loans while you attended Seattle University, federal law requires that you obtain loan exit counseling through Seattle University. That counseling will give you further information on your loans(s). Loan repayment will begin at the end of your grace period(s) as defined by the promissory note(s) you completed to receive the loans.

Student Financial Services will return Seattle University-sponsored aid to its source, based on the university's tuition refund calendar. If you will be refunded 50 percent of your tuition costs, then only 50 percent of the Seattle University sponsored financial aid will be applied to your student account.

Based on the university's refund policy and calendar, if you withdraw during a tuition refund period (100 percent, 75 percent, 50 percent or 0 percent), Seattle University grants and/or scholarships and Washington State grants may be reduced based on the applicable refund at the time you withdrew.

If most of your tuition costs were covered by financial aid, then most of your refund will be returned to those financial aid programs. This does not apply to any private educational loans you may have received. Repayment of these loans is solely the responsibility of the borrower—you and/or your parent—once the funds have been applied to your student account.

If you paid with cash, check or credit card, the amount refunded will be based on the applicable refund percentage at the time you withdrew.

When all is said and done, in some cases you may be required to repay federal and/or state grant aid and/or the changes in the amount of financial aid you have earned prior to your complete withdrawal may result in a balance due from you to the university. In these cases, we send a revised student account invoice to let you know of the amount owed as a result of your complete withdrawal. Your future registration will be blocked and transcripts will be withheld until this balance is paid.

Sample "Return of Funds" calculations can be found by going to seattleu.edu/sfs. Once there, rest your cursor on the Financial Aid tab at the top of our home page and click on Withdrawing from Some or All of Your Classes from the dropdown menu that appears. Scroll to the bottom of the resulting page and click on the highlighted Sample Return of Funds link.

Z Grades and Hardship Withdrawals

Z grades are assigned by the registrar when it is documented that a student has registered for a course, stopped attending prior to the end of the scheduled add/drop period or never attended the class, and did not officially withdraw according to university policy. Students who were awarded financial aid and subsequently receive a Z grade for some or all of their classes will have their aid adjusted based on a revised enrollment status (the number of credits for which the student is enrolled excluding those for the class for which the Z grade has been assigned). This may lead to students owing money to the university. Contact Student Financial Services to determine the effect Z grade(s) will have on financial aid. When a continuing—not first quarter—student receives a Z grade rather than a withdrawal, a \$100 fee will be charged to that student's account for each Z grade received.

Hardship Withdrawals: Students granted a hardship withdrawal by their dean should keep in mind that this withdrawal is for academic purposes only; tuition refunds follow the standard refund policy and are based on the official withdrawal date. A separate petition is required to request an exception to the standard refund policy. These requests are typically approved only if there was a death in the student's immediate family or the student had an illness or injury that required three or more days of hospitalization.

Student Consumer Information and Disclosures

There are a number of reports produced annually by the university to provide information to students and parents. The information is sent to students either through university e-mail or U.S. mail. For inquiries about the content of the reports or to obtain printed copies of the reports, please contact the office below:

The Family Educational Rights and Privacy Act of 1974 ("FERPA")

seattleu.edu/registrar/page.aspx?ID=18

Office of the Registrar(206) 296-2000

This is Seattle University's annual notification to students about their rights under FERPA, the federal law relating to student records.

The Student Right-to-Know Act

seattleu.edu/ir/Retention&Graduation/GradRate.asp

Institutional Research(206) 296-6144

This report includes completion or graduation rates for the general student body and for student athletes receiving athletically related student aid.

The Campus Security Act of 1990

The Campus Sexual Assault Victim Bill of Rights

seattleu.edu/safety

Public Safety(206) 296-5990

These reports disclose campus crime statistics as well as crime prevention policies and security measures on campus.

The Campus Sex Crimes Prevention Act

seattleu.edu/safety

Public Safety(206) 296-5990

This statement advises the campus community where law enforcement agency information provided by the state concerning registered sex offenders may be obtained.

The Equity in Athletics Disclosure Act

athletics.seattleu.edu

University Athletics(206) 296-5441

This report contains data on participation rates and financing of men and women's intercollegiate athletic programs.

The Drug Free Schools and Communities Act Amendments of 1989

seattleu.edu/studentdevelopment/file_category.aspx?ID=4

Student Development(206) 296-6066

The *Substance Abuse Policies and Prevention Handbook* describes substance abuse prevention information and resources and standards of conduct for students relating to drug or alcohol use.

Financial Assistance Information

seattleu.edu/sfs/

Student Financial Services(206) 296-2000

Detailed information about the financial assistance available to students at Seattle University can be found online and from the Student Financial Services.

Academic Regulations

Students are responsible for informing themselves of the academic regulations, requirements and policies set forth in this *Bulletin* and of other applicable university policies, rules and regulations. References to applicable policy statements are noted parenthetically. Students should always consult the Office of the Registrar website at seattleu.edu/registrar for the most up-to-date version of policies, rules and regulations. In all cases, the official academic policies are considered to be the overriding authority of any rule or regulation listed in this *Bulletin*.

Students are also responsible for the satisfactory completion of their program of study. Therefore, students should not rely on verbal representations of degree requirements or waivers thereof. Students should ensure through their advisor, program director or other authorized individual that information and understandings pertaining to academic issues is accurate and that all agreements are entered in their official academic file in the Office of the Registrar.

Failure to meet the requirements or comply with regulations because of lack of knowledge does not excuse students from responsibility for compliance.

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 authority of the university. The university reserves the right to cancel any class that does not meet the required minimum enrollment, as determined by the university. The university also reserves the right to change any academic requirement or policy without notice and to require students to withdraw at any time.

Classification of Students (Policy 82-2)

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

Post-Baccalaureate Undergraduate (Policy 82-2)

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.

Non-Matriculated Status (Policies 82-2, 92-2)

An admission category that includes (1) 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 that is not intended to culminate in a Seattle University degree or certificate; or (2) those who are recorded in the computer system via a manual registration process through the Office of the Registrar for particular programs offered by the schools or colleges in which the student is not required to be admitted to the university. Students in this second category are not eligible for the same access to systems and services as students in the first category.

As per *Policy 92-2*, a maximum of 15 credits taken at the non-matriculated undergraduate level (category 1 above) will be accepted toward an undergraduate degree program at Seattle University.

There is no limit to the number of quarters 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. During summer term, non-matriculated students may register when registration opens for the term.

Course Work

Academic Honesty (Policy 2004-01)

Seattle University is committed to the principle that academic honesty and integrity are important values in the educational process. Academic dishonesty is a serious offense and will be addressed according to this policy.

Academic Load, Undergraduate Students (Policies 77-5, 82-1)

- Full-time: 12 or more quarter credits
- Half-time: Six, seven or eight quarter credits

Academic Overload (Policy 2001-02)

Students may take up to 18 credits per quarter, including audited courses. The academic overload policy is designed to allow highly capable students to broaden their education by taking courses outside of their program requirements. Students who have sophomore standing or above, have attended Seattle University at least one quarter, and have earned a cumulative GPA of at least 3.50 at Seattle University may take up to 20 credits per quarter. Refer to the *Tuition and Fees* section for information on costs. Students on academic probation may be required by the dean of their school to carry less than the normal credit load.

Add/Drop

Students are held accountable to complete every course for which they register. If it is necessary to add or drop a course or change a grading option, the student must do so by the last day of the add/drop period. Failure to properly drop a course could result in a failing grade or an administrative withdrawal which carries a financial penalty.

Attendance Requirement

Attendance is an essential and intrinsic element of the education process. In any course in which attendance is necessary to the achievement of the course objectives, it may be a valid consideration in determining students' grades. Although there is no university regu-

lation requiring class attendance, each instructor and each program has the discretion to establish attendance standards. The student is responsible for becoming familiar with any attendance requirements applicable to their courses or program of study.

Auditing a Course (Policy 97-7)

Students may be enrolled as auditors in undergraduate courses only upon payment of the usual fees and audit tuition. Students who register for credit, in all cases, will receive priority over those who audit. Undergraduate students may take up to 18 credits per quarter, including audited courses. Students with sophomore standing or above and a cumulative GPA of 3.50 may take up to 20 credits per quarter, including audited courses.

An undergraduate student registered for at least 12 graded credits may audit a course at no additional cost up to 20 total credit hours. Those enrolled for fewer than 12 graded credits and more than 20 will be charged the regular audit fee per credit hour as published in the listing of tuition and fees for the given quarter of study.

The alumni audit program is available to alumni through the Alumni Relations Office. The Elder Audit program is available to people age 60 and older on a space-available basis for certain classes with permission of the instructor. Information may be obtained from the Office of the Registrar. Neither of these programs provides a student with a permanent record of the audited course.

Course Numbering System

001 to 099 are courses that 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)

800 to 899 are post-secondary professional development courses

900 to 999 are post-baccalaureate professional development courses

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

Pass/Fail Option (Policy 76-1)

Undergraduate students may elect a pass/fail option in free elective courses only and under certain conditions as outlined in the policy. Changes to the grading option must be made by the end of the add/drop period.

Registration

All students must register by the dates published. No registration is permitted after the last day to add/drop as published in the university academic calendar. Students registering after the first class day are held responsible for absences predating registration. No person may attend any university course unless officially registered.

Regression Rule

Students who complete course work at an intermediate or advanced level without first completing the lower level introductory courses may not then go back and take the lower level courses for credit. This rule applies primarily to course work in mathematics, the sciences, and foreign languages. It may also apply in other departments where there is a clear content sequence between courses.

Repeating a Course (Policy 77-2)

If an undergraduate student receives a grade of C- or below in a course at Seattle University, s/he may repeat that course. Some schools, major departments and professional programs have other specific regulations regarding the repeating of a course. When a course graded C- or below is repeated at Seattle University, the most recent grade will be posted to the permanent record and will be used in computing the cumulative GPA. The original grade will remain on the record but course credits will be counted only once toward a degree.

Withdrawal from a Course (Policy 75-22)

Students must officially notify the Office of the Registrar in writing when they withdraw from any course. The withdrawal form is obtained from the Office of the Registrar and presented to the instructor, other applicable offices, and the Office of the Registrar, in that order, for approval and signature.

The official date of a student's withdrawal is the date of the first signature on the withdrawal form by any official of the university or the last day of attendance as verified by the instructor, whichever is earlier.

Failure to properly withdraw from a course by the published withdrawal deadline will result in a failing grade.

Credit, Alternate Sources

Credit by Examination (Policy 2004-06)

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. For specific restrictions, refer to the policy.

Transfer Credit (Policies 77-1, 79-1)

Regular undergraduate students who have attended other regionally accredited colleges or universities may have credits transferred to Seattle University under the conditions outlined in the university policies.

Not all courses offered in post-secondary institutions are transferable to the university. To assure that the courses will be transferable, continuing Seattle University students who wish to take additional work at another college must file a completed Transfer Verification form with the Office of the Registrar prior to attendance.

Enrollment

Dual Enrollment at Two Colleges (Policy 75-6)

Seattle University regulations require students to seek written permission on a Transfer Verification form to be enrolled simultaneously at another institution. Courses 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 of the student's college or school.

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

Readmission must be requested when a student has not enrolled at Seattle University for four consecutive quarters, including summer, or has otherwise withdrawn from the university.

Students will continue to receive registration materials and be eligible to register for the four consecutive quarters (including summer) after the last quarter of attendance if they do not formally withdraw. See the policy for specific exceptions.

Returning students who have attended other post-secondary institutions after leaving Seattle University must submit official transcripts before applications for readmission will be considered.

Students who have not attended the university for more than four consecutive quarters will be held to the degree requirements in effect at the time of readmission.

Grading

Grades are available for viewing on SU Online the day following the final grade submission deadline.

Grading System

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

A	4.00	Superior performance
A-	3.70	
B+	3.30	
B	3.00	Good performance
B-	2.70	
C+	2.30	
C	2.00	Adequate performance
C-	1.70	
D+	1.30	
D	1.00	Poor performance
D-	0.70	
F	0.00	Failing

The grades of CR, HW, I, IP, LW, M, N, NC, P, W, Y, YW or Z have no quality point value.

CR/F—Mandatory Credit/Fail

Music practice courses; some field experiences; internships; independent study; and other courses so designated by individual departments are graded only credit (CR) or fail (F). When passed with the minimum acceptable standard of D-, 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.

Colleges and programs may have a higher-grade standard for what constitutes a credit. Consult the appropriate school or college handbook for this information.

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 the credit by examination policy in this section of the *Bulletin* for more information.)

HW—Hardship Withdrawal (Policy 75-22)

Hardship withdrawals may be granted for the death of a family member, catastrophic illness in the family, or an illness and/or injury to the student that incapacitates. The dean will require the student to provide documentation to support the request. If granted, the student is withdrawn from all courses for that term. There is no effect on the grade point average. Any tuition refund follows the regular refund policy. Financial aid recipients are advised to check with the Office of Student Financial Services before requesting a hardship withdrawal because this action may negatively affect financial aid.

I—Incomplete (Policy 97-3)

An incomplete is 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. It may not be used for the convenience of the faculty member or student. The I grade is not counted in the credits earned or used in the grade point average computation. When the instructor assigns an I grade at the end of a term, a default grade is submitted that will be automatically assigned by the Office of the Registrar if the deadline expires without student action. This default grade is calculated to include all work completed up to the date of final attendance plus a failing grade for work or examinations the student did not complete. If no default grade is submitted, the Office of the Registrar will assign a grade of F once the I deadline expires. Once a degree has been posted, removal of an I grade is not permitted. The deadlines for removing I grades are:

Term I earned in	Date final grade is due
Spring, summer or Intersession	Oct. 25, 2008
Fall 2008	Jan. 31, 2009
Winter 2009	April 25, 2009

IP—In Progress

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

LW—Petitioned Late Withdrawal (Policy 75-22)

Each student is limited to three LW grades.

M—Missing

Symbol used when the instructor has not submitted a grade to the Office of the Registrar.

N—No Grade (Policy 75-19)

A grade used for courses in which the course work is not scheduled for completion until after the quarter closes, e.g., thesis, research or internship courses. It is the responsibility of each student to arrange with the instructor to remove the N grade no later than the following deadlines:

Term N earned in

Summer

Fall

Winter

Spring

Date final grade is due

Aug. 1 of the following calendar year

Nov. 15 of the following calendar year

March 1 of the following calendar year

May 1 of the following calendar year

Once the deadline 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.

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

The P grade is assigned when a student successfully completes an undergraduate course after electing the pass/fail (P/F) 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 the pass/fail option policy in this section of the *Bulletin*.

W—Withdrawal (Policy 75-22)

Official withdrawal.

Y—Audit

A course for which no credit is given. Not available for course numbers 500-999.

YW—Audit Withdrawal

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

Z—Administrative Withdrawal (Policy 75-22)

Grade assigned by the Office of the Registrar when it can be documented that a student has registered for a course, stopped attending or never attended the class by the end

of the add/drop period, and did not officially withdraw according to university policy. There is no effect on the grade point average. There is a \$100 fee per Z grade.

Academic Standing

Good Standing

Undergraduate students must maintain a C average which is equivalent to a cumulative 2.00 grade point average (GPA) on a 4.00 scale. Requirements of professional schools may be higher and individual majors and programs may also have higher grade point requirements.

Probation and Dismissal for Academic Deficiencies (Policy 75-14)

A student will be placed on probation if their cumulative GPA falls below 2.00, or for other reasons as determined by the university or the college or school in which the student's program is located. Additional bases for academic probation or dismissal is detailed in the university policy on probation and dismissal for academic deficiencies and the policies of the various schools, colleges and programs.

Performance criteria are further defined in several policies: Arts and Sciences (87-1), Business and Economics (81-2), College of Nursing (75-3), Diagnostic Ultrasound (81-3) and Science and Engineering (81-4).

Grade Changes

Changing an end-quarter grade is permitted only on the basis of an actual error in computation or transcription whether discovered by the student or the instructor. Changing a grade is not permitted by reason of revision of judgment on the part of the instructor or by submitting new or revised work. Errors in grades must be reported within six months of the date grade reports are issued. In the event that a student disputes an end-quarter grade, the grading grievance procedure should be followed.

Grading Grievance—Challenging Course Grades (Policy 2004-07)

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. If a student challenges a final course grade, the burden of proof lies with the student. The faculty member has an obligation to award course grades on the basis of standards set at the beginning of the course.

This policy guides the university's response to allegations that a faculty member acted arbitrarily and capriciously in assigning course grades. The grading grievance policy does not apply to mathematical errors in calculating the grade, academic dismissals from the university or a program, or questions of professional judgment concerning course content, instructional methods or appropriateness of performance standards. In addition, this policy does not apply to the School of Law.

Grade Point Average (Policy 75-2)

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 that also satisfy a core requirement.

Term Honors (Policy 2008-02)

Dean's List

The Dean's List recognizes student academic achievement by undergraduates and is published by each college after grades are processed each quarter. To qualify for the Dean's list, students must earn at least a 3.50 GPA for the quarter and complete a minimum of 12 graded credits. Pass/fail and credit/fail classes, and courses graded I do not count toward these 12 credits.

President's List

The President's List recognizes student academic excellence by undergraduate students each quarter after grades have been processed and is acknowledged by a letter from the Provost's Office. To qualify for the President's list, students must earn at least a 3.90 GPA for the quarter and complete a minimum of 12 graded credits. Pass/fail and credit/fail classes, and courses graded I do not count toward these 12 credits.

Transcripts (Policies 76-3, 97-6)

Current students may obtain official Seattle University transcripts of their academic record by accessing SU Online or submitting a written request to the Office of the Registrar. Former students may obtain official Seattle University transcripts by accessing the National Student Clearinghouse website or submitting a written request to the Office of the Registrar.

No official transcript will be released to students with an unsatisfied financial or other obligation to the university. Unofficial transcripts are available via SU Online.

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

Earning a Degree

All responsibility for fulfilling requirements and for applying for graduation rests with the individual student.

Academic Progress (Policy 75-1)

Seattle University recognizes that students progress at different rates and their time to complete a degree is often dictated by individual circumstances. However, all degree requirements for undergraduate students should be completed within 10 years of the date when college work began.

Degree Requirements (Policies 75-1, 76-2)

Catalog Year

The academic year begins with the summer term. Students are held to the degree requirements in effect at the time of first enrollment. Students who are readmitted after an absence of more than four consecutive quarters or who change their majors are required to meet the degree requirements in effect at the time of readmission or change of major.

Students may, by petition, elect to graduate under degree requirements specified in subsequent *Bulletins*; however, under no circumstances will the requirements from earlier *Bulletins* be applied.

Credits Required to Graduate

All students (except those enrolled in Matteo Ricci College earning the bachelor of arts in humanities degree) must complete a minimum of 180 credit hours of approved course work to be awarded a baccalaureate degree. Some programs require more than 180 credits total. The final 45 credits of degree requirements must be completed at Seattle University.

Students working for a second baccalaureate degree, either consecutively or concurrently, must complete at Seattle University a minimum of 45 credits beyond the first baccalaureate degree and complete all specific requirements of the new program and/or the new college or school. To satisfy core requirements, students who have previously completed an acceptable baccalaureate degree must complete the essential core curriculum 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.

Majors

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

A student may earn only one major or major with a specialization within one academic discipline.

Major credit minimums as stated in this *Bulletin* must be met. When transfer courses applied to major requirements have fewer credits than the SU equivalent, the total credits needed to complete the major requirements will be reduced by a maximum of one credit. However, the total credits required for the degree will not be reduced.

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 for the second major, including any core courses that are required within that major. They must also satisfy any additional requirements of the new college or school in order to earn the second major. There is not a specific additional number of degree credits required provided all requirements for both majors are completed when the degree is posted.

For second or concurrent degrees, see *Credits Required to Graduate* in this section.

Change of Major or Program

To transfer from one college or school of the university to another, or from one major program to another, a student must obtain a change of major or program form from SU Online, notify the former department by obtaining the chair's signature, and present the form to the new department chair for approval. Students must meet the minimum entry requirements of the new major and must also satisfy any additional requirements of the new college or school in order to earn the degree. The approved form is returned to the Office of the Registrar by the department and the student's record will be adjusted to reflect the new major.

Minors (Policy 84-1)

Departments or schools offering undergraduate minors outline specific requirements in this *Bulletin* under departmental requirements or degree requirements. Students who want a minor posted to their academic records must file a Request to Add a Minor form with the Office of the Registrar prior to the deadlines posted on the form. A minor cannot be earned in the major discipline.

Graduation/Commencement

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

Application for a Degree

Application for a degree must be made with the Office of the Registrar via SU Online according to these deadlines:

Graduation term	Application deadline
Winter	Oct. 1
Spring	Nov. 1
Summer or Fall	Feb. 1

Application for a Certificate (Policy 76-11)

Application for a certificate must be made during the first week of the term in which the certificate course work is to be completed. After the department completes its part, the form is submitted to the Office of the Registrar.

Commencement with Deficiencies (Policy 83-1)

Students who have not completed their degree requirements by the time of the official commencement exercises may, under the following conditions, participate in commencement:

- Have 18 or fewer credits of degree requirements remaining to be satisfied after spring quarter and meet the grade point standards for their degree programs by the end of winter quarter; or
- If completing two degrees simultaneously, students are held to the same standards and must have 18 or fewer credits remaining to be completed for both degrees after spring quarter.

Students with deficiencies who plan to participate in June commencement must apply for graduation no later than Nov. 1, prior to the ceremony.

Honors at Graduation (Policy 75-21)**Latin Honors**

Honors at graduation are conferred on undergraduate students with at least 90 Seattle University graded credits on the following scale:

Cum Laude—3.50 through 3.69

Magna Cum Laude—3.70 through 3.89

Summa Cum Laude—3.90 through 4.00

As commencement occurs prior to spring quarter grading, the commencement program will indicate honors as of the winter quarter grades. Actual honors confirmed, as shown on diplomas and transcripts, will be determined once all course work has been completed and graded.

President's Award (Policy 75-12)

The President's Award is given at the discretion of the Deans' Council to the graduating senior who entered Seattle University as a first-time freshman and has maintained the highest Seattle University grade point average throughout their undergraduate studies.

Provost's Award (Policy 75-12)

The Provost's Award is given at the discretion of the Deans' Council to the graduating senior who entered Seattle University as a transfer student from another college or university and has maintained the highest Seattle University grade point average throughout their undergraduate studies.

Other Academic Policies

Fair Process Policies (Policies 2001-01, 2005-01)

The Fair Process Policies apply to students enrolled in clinical, field or contextual education experiences at Seattle University and set out the process by which a student may seek review of certain types of decisions affecting continued participation in a program. *Policy 2005-01* applies to students in the Colleges of Arts and Sciences, Education and Nursing. *Policy 2001-01* applies to students in the Albers School of Business and Economics, College of Science and Engineering and Matteo Ricci College. Students are referred to the most current online versions of the Fair Process Policies for a description of decisions that may or may not be reviewed under these policies.

Privacy of Student Records

Seattle University's practices regarding the privacy of student records are in compliance with the Family Educational Rights and Privacy Act (FERPA). The university maintains as confidential all personally identifiable information in education records except information considered to be directory information. Students have the right to request that directory information not be disclosed to third parties and may do so by submitting their request in writing to the Office of the Registrar by the last day to register each term, as announced in the university academic calendar. For a definition of directory information see the FERPA annual notification on the Office of the Registrar website.

In addition, FERPA affords students certain rights with respect to their education records. These rights are:

1. The right to inspect and review the student's education records within 45 days of the day the university receives a request for access.
2. The right to request the amendment of the student's education records that the student believes are inaccurate, misleading or otherwise in violation of the student's privacy rights.
3. The right to consent to disclosure of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

FERPA permits disclosure without consent to school officials with legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. The university may also disclose personally identifiable information from a student's education records without the student's consent if the disclosure is to parents of dependent children as defined by the Internal Revenue Code, Section 152; or to officials of another school in which a student seeks or intends to enroll. Furthermore, the university is required by law to provide the name and address of all students to any legitimate military recruiter who makes such a request in writing to the Office of the Registrar. Other exceptions exist that allow disclosure without a student's consent.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Seattle University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue SW
Washington, D.C. 20202-4605

Complete copies of Seattle University's guidelines on the privacy of student records (76-09) and the annual FERPA notification to students are available at *seattleu.edu/registrar* under Academic Policies, or in the Student Handbook.

Nonacademic Regulations

Statement on Nondiscrimination

Seattle University does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, marital status, sexual or political orientation, or status as a Vietnam-era or special disabled veteran in the administration of any of its education policies, admission policies, scholarship and loan programs, athletics and other school-administered policies and programs, or in its employment related policies and practices.

All university policies, practices and procedures are administered in a manner consistent with Seattle University's Catholic and Jesuit identity and character.

Inquiries relating to these policies may be referred to the university's Associate Vice President of Human Resources and Equal Opportunity Officer at (206) 296-5865.

Consistent with the requirements of Title IX of the Education Amendments of 1972 and its implementing regulations, Seattle University has designated three individuals responsible for coordinating the university's Title IX compliance. Students or employees with concerns or complaints about discrimination on the basis of sex in employment or an education program or activity may contact the following Title IX coordinators:

Ruth Donohue

Human Resources Manager
Equal Opportunity Officer
University Services Building 107
(206) 296-5865
donohue@seattleu.edu

Jacob Diaz

Dean of Students
Student Center 140C
(206) 296-6066
diazj@seattleu.edu

Jacquelyn Miller

Associate Provost for Academic Affairs
Administration 104
(206) 296-5446
jcmiller@seattleu.edu

Individuals may also contact the Office for Civil Rights of the U.S. Department of Education.

Bias-related Harassment

Seattle University values and celebrates the diverse backgrounds, cultures, experiences and perspectives of our community. By encouraging and protecting diversity, we create an environment that promotes freedom of thought and academic excellence.

It is a violation of university policy and the Code of Student Conduct to engage in bias-related conduct that has the purpose or effect of unreasonably creating an intimidating, hostile, or offensive educational, living or working environment. "Bias-related"

conduct refers to language or behaviors that demonstrate bias against persons or groups because of race, color, ethnicity, religion, faith, national origin, political orientation or sexual orientation.

These categories are examples and are not an exhaustive list of attributes or characteristics protected under this policy.

A student feeling unsafe or threatened because of bias-related harassment should always seek help from a responsible member of the university community who is trained and able to assist. The university offers informal and formal procedures for processing and responding to concerns of hostile or unwelcome behavior. The following individuals are available to assist students:

Jacob Diaz, dean of students, (206) 296-6066

Monica Nixon, director, Office of Multicultural Affairs, (206) 296-6070

Romando Nash, director, Housing and Residence Life, (206) 296-6305

Faizi Ghodsi, executive director, Student Services;
director, International Student Center, (206) 296-6260

Mary-Antoinette Smith, associate professor, English, (206) 296-5415

Tim Wilson, director, Student Activities, (206) 296-2525

Students may also make formal or informal complaints using the procedures contained in the Sexual Harassment Complaint Procedure for Students, available online at seattleu.edu/studentdevelopment/file_category.aspx?ID=5. In the case of allegations involving a member of the faculty, staff or administration, students may also contact Human Resources at (206) 296-5870 to make a complaint or discuss a concern.

Discrimination Complaint Resolution Procedure for Students

At Seattle University, we are united in the common goal of teaching and learning, educating for values, preparing for service and fostering the holistic development of persons. Consistent with our mission and the law, Seattle University does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, marital status, sexual or political orientation, or status as a Vietnam-era or special disabled veteran in the administration of any of its education and admission policies, scholarship and loan programs, athletics, and other school-administered policies and programs and employment related policies and activities.

A student who has a concern about possible discriminatory treatment experienced in connection with university programs, services, facilities or activities is encouraged to discuss those concerns with a member of the university community who is trained and able to assist. There are formal and informal complaint resolution procedures available to students.

It is a violation of the university's non-discrimination policy to discriminate or retaliate against any student because he or she has opposed any discriminatory practice proscribed by university policy, or because the student has filed a complaint, testified, assisted or participated in any manner in any university procedures designed to resolve an allegation of discrimination. A copy of the *Discrimination Complaint Resolution Procedure*

for Students is available at the Office of the Provost and at the Office of the Vice President for Human Resources/Equal Opportunity Officer or online at seattleu.edu/student-development/file_category.aspx?ID=5.

Policies Against Sexual Harassment

Seattle University seeks to promote and maintain an environment free from harassment of any type. Sexual harassment can interfere with a student's academic performance and emotional and physical well being. Preventing and remedying sexual harassment at SU is essential to ensuring a nondiscriminatory environment in which students can learn.

If a student has a concern about harassment by another student or group of students, this should be reported to the Dean of Students or any of the contact persons listed below. A complete copy of the *Policy and Complaint Procedure Relating to Sexual Harassment of Students by Students* is available in the Office of the Vice President for Student Development. If a student has a concern about harassment by a member of the faculty, staff or administration, or by anyone in an employment or teaching situation, this should be reported to Human Resources and is governed by the Seattle University sexual harassment policy.

Definitions

Sexual harassment is defined as any unwelcome, offensive behavior of a sexual nature; unwelcome sexual advances; requests for sexual favors; and other verbal or physical conduct of a sexual nature when:

- Submission to such conduct is made either explicitly or implicitly a term or condition of employment or academic admission or advancement;
- Submission to or rejection of such conduct is used as the basis (or threatened to be used as the basis) for employment actions or academic decisions or evaluations; or
- Such conduct has the purpose or effect of unreasonably interfering with an individual's work or educational performance or creating an intimidating, hostile or offensive work or learning environment.

Sexual harassment can occur between or among supervisors, managers and subordinates, faculty and staff, or students, peers, vendors, subcontractors, visitors and employees or students, and any combination thereof. The harasser is often, but not always, in a more powerful position than the person being harassed. In such situations, sexual harassment is particularly serious because it may unfairly exploit the power inherent in a supervisor's or faculty member's position. All forms of sexual harassment are violations of the university's policy and will not be tolerated.

Students may consult informally or make a complaint with one of the following designated people:

Jacob Diaz, dean of students, (206) 296-6066

Monica Nixon, director, Office of Multicultural Affairs, (206) 296-6070

Romando Nash, director, Housing and Residence Life, (206) 296-6305

Faizi Ghodsi, executive director, Student Services;
director, International Student Center, (206) 296-6260

Mary-Antoinette Smith, associate professor, English, (206) 296-5415

Tim Wilson, director, Student Activities, (206) 296-2525

As sexual harassment is a form of sex discrimination, it can be a violation of Title IX of the Education Amendments of 1972. In addition to the contact persons listed above, the university has designated three individuals responsible for coordinating the university's Title IX compliance. Students with concerns or complaints about harassment on the basis of sex in an education program or activity may also contact the following Title IX coordinators:

Ruth Donohue

Human Resources Manager
Equal Opportunity Officer
University Services Building 107
(206) 296-5865
donohue@seattleu.edu

Jacob Diaz

Dean of Students
Student Center 140C
(206) 296-6066
diazj@seattleu.edu

Jacquelyn Miller

Associate Provost for Academic Affairs
Administration 104
(206) 296-5446
jcmiller@seattleu.edu

Those persons responsible for consulting about, investigating and resolving complaints of sexual harassment will make efforts, to the extent possible, to protect the privacy of both the complainant and the respondent.

Individuals may also contact the Office for Civil Rights of the U.S. Department of Education.

Complaint Procedures Relating to Alleged Sexual Harassment of Students by Students

Any student who believes they have been a victim of sexual harassment by another student or group of students and wishes to report or discuss the matter may use either a formal or informal complaint procedure.

No individual shall be penalized or retaliated against in any way by a member of the university community for their participation in this complaint procedure.

Informal Complaint Procedure

The informal complaint procedure seeks to achieve a resolution upon which both the complainant and the alleged harasser agree. An informal complaint may be oral or in writing and should be brought to one of the contact persons as listed previously.

Informal complaints may have several outcomes. The person raising the issue may only want to discuss the matter with a neutral third party to clarify whether harassment may be occurring and to determine their options, including the pursuit of more formal action.

In such a situation, the contact person will give assistance and offer suggestions on how the issue might be resolved, without drawing a conclusion as to whether harassment has occurred.

In other cases, the contact person may be asked to act as a mediator, to talk to the other person(s) to see whether an informal resolution of the issue can be reached. If this process reaches a resolution, no further actions will be taken, and the matter will be considered closed.

The Dean of Students will keep a record of the complaint and its resolution, including the names of the involved parties. Issues not resolved may require further inquiries and/or that the university take a more active role in finding a solution to the problem. If a satisfactory resolution cannot be reached, the formal complaint procedure may be used at the option of the complainant, the respondent or the university.

Formal Complaint Procedure

A complainant may make a formal complaint without first using the informal complaint procedure. A formal complaint should be in writing and submitted to the Dean of Students. The formal complaint should include the alleged harasser's name; the times, dates, places and circumstances surrounding the allegation of harassment; and the names of any witnesses to the incident(s). The complainant may request assistance from a contact person in preparing a written complaint.

A formal complaint can be initiated by any of the contact persons, including the Dean of Students. The president, provost, vice presidents or deans may request that the Office of the Vice President for Student Development conduct an investigation or conduct a review without a formal complaint from any one individual.

After receipt of the formal complaint, the Dean of Students or their designee will review student files and will consult with the complainant, the person against whom the complaint is made, any witnesses and appropriate faculty, staff and students in an attempt to resolve the matter and/or to determine whether further investigation is warranted. A copy of the formal complaint will be provided to the individual against whom the complaint is made. A formal investigation can be terminated at any time (e.g., if a satisfactory resolution is agreed to before a written finding is made, or if an appropriate resolution is implemented.)

Upon completion of the investigation, the Dean of Students will determine if the complaint merits adjudication and will notify the complainant and respondent, if any, in writing of the findings and recommendations. Even where prohibited harassment is not found, the Office of the Vice President for Student Development may determine that the conduct is inappropriate or otherwise violates the Code of Student Conduct.

A complainant or respondent dissatisfied with the findings or recommendations may file a rebuttal statement with the Dean of Students for inclusion in the investigative file. In cases that warrant adjudication, the Office of the Vice President for Student Development retains the right to determine whether the review will be conducted by the faculty/student review board, the peer review board or by an administrator designated by the Vice President for Student Development. The proceedings will be conducted in accordance with the Code of Student Conduct.

Students with Disabilities

Seattle University's policy and practice is to comply with the Americans with Disabilities Act, Section 504 of the Rehabilitation Act, and state and local requirements relating to students with disabilities. Under these laws, the university cannot deny a qualified individual with a disability access to or participation in the university's services, programs and activities. Students seeking reasonable accommodation, services, adjustments or modifications on account of a disability should contact Disabilities Services at (206) 296-5740. More information about policies, procedures and services for students with disabilities is available on the Disabilities Services website at seattleu.edu/SAS/DS.

Section 504/ADA Policy and Appeal Procedure

In compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act, Seattle University does not discriminate on the basis of disability in administration of its education-related programs and activities, and has an institutional commitment to provide equal educational opportunities for disabled students who are otherwise qualified.

Students who believe they have been subjected to discrimination on the basis of disability, or have been denied access to services or accommodations required by law, have the right to use the university's Section 504/ADA Policy and Appeal Procedure. A copy is available at the Disabilities Service Office, the Office of the Provost, the Office of the Vice President for Student Development, or the Office of the Vice President for Human Resources/Equal Opportunity Office and on the Disabilities Services website. Contact the Equal Opportunity Officer regarding this policy or ADA/504 compliance at (206) 296-5865, or e-mail: donohue@seattleu.edu.

Title IX of the Education Amendments of 1972

It is the policy of Seattle University to comply with Title IX of the Education Amendments of 1972 and its regulations, which prohibit discrimination on the basis of sex. The Title IX compliance officers are:

Ruth Donohue

Human Resources Manager

Equal Opportunity Officer

University Services Building 107

(206) 296-5865

donohue@seattleu.edu

Jacob Diaz

Dean of Students
Student Center 140C
(206) 296-6066
diazj@seattleu.edu

Jacquelyn Miller

Associate Provost for Academic Affairs
Administration 104
(206) 296-5446
jcmiller@seattleu.edu

Anyone who believes that in some respect Seattle University is not in compliance with Title IX and its regulations should contact one of the Title IX compliance officers. Grievance procedures to address complaints of discrimination on the basis of sex are set forth in the *Discrimination Complaint Resolution Procedures for Students* and in the *Sexual Harassment Complaint Procedure for Students*.

Ownership and Use of Seattle University Trademarks

Seattle University trademarks and service marks, and other names, seals, logos and symbols that are representative of Seattle University may be used only with written approval of Seattle University. The university graphic identity is copyrighted and may not be used on publications or products originating outside of Seattle University without express written permission of Marketing and University Communications. For more information, call (206) 296-2104.

Custom items imprinted with the university's trademarks, such as T-shirts, pens and coffee mugs are available for purchase exclusively through the Seattle University Bookstore to ensure proper treatment of the university's trademarks and to protect against the sourcing of products manufactured in sweatshops. The bookstore has approved vendor lists, price lists and samples from which to choose. For more information, contact the bookstore at (206) 296-5822.

Copyright

Copyright laws protect original works of authorship and give copyright holders the exclusive right to: copy, distribute, publish, prepare derivatives or revisions of, perform, or display works in public.

Each student is responsible for complying with applicable copyright laws and with the university's *Copyright Policy and Guidelines*. Violation of copyright laws may result in civil or criminal liability, and violation of the university's copyright policy may result in disciplinary action, including dismissal. To review the copyright policy and guidelines and view general copyright information, visit seattleu.edu/policies/copyright.asp.



**2008–2009 Undergraduate
Academic Programs**

The Core Curriculum

Jeffrey S. Philpott, PhD, Director

"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, S.J.

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, discovering philosophical and theological assumptions underlying 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.

The University Core Curriculum Requirements:

First-time Students or Students Transferring with Fewer than 45 credits (prior to first attendance at Seattle University)

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.

The following core requirements are in effect:

Phase One: Foundations of Wisdom

Writing/Thinking Sequence 10

ENGL 110 College Writing: Inquiry and Argument

PHIL 110 Introduction to Philosophy and Critical Thinking

These two courses are normally 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 Introduction to 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 normally 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 College of Science and Engineering may take this sequence in spring of the first year and fall of the second year).

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

A five-credit fine arts course from the following: FINR 120, ART 100, 120, 161, 211, 212, 213, 230, 317; DRMA 101, 211, 212, 214, 250, 260; MUSC 100 or 101

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: ANTH 120, PSYC 120, SOCL 120, PLSC 120, or CISS 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 Analysis

CRJS 200 Deviance and Social Control

CRJS 210 Law, Society and Justice

ECON 271	Principles of Economics: Macro
ECON 272	Principles of Economics: Micro
PLSC 200	Introduction to American Politics
PLSC 230	Comparing Nations
PLSC 250	Introduction to Political Theory
PLSC 260	Introduction to International Politics
PSYC 210	Personality Adjustment
SOCL 210	Social Problems
SOCL 219	Deviance and Social Control
SOCL 222	Society and Behavior

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 THRS 200-299.

Phase Three: Responsibility and Service

Ethics 5

Choose one of the following options:

BETH 351	Business Ethics
PHIL 345	Ethics
PHIL 351	Business Ethics
PHIL 352	Health Care Ethics
PHIL 353	Ethical Issues in Science and Technology
PHIL 354	Ethics and Criminal Justice
PHIL 358	Communication Ethics
THRS 325	Core Ethics: Christian Perspective

Theology and Religious Studies Phase III 5
Any approved five-credit course selected from THRS 300-399.

Interdisciplinary Course 3 to 5

A three- to five-credit course that deals 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 to 5

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. In some cases only the core interdisciplinary and/or senior synthesis may fulfill both core and major requirements. See individual program sections.

The University Core Curriculum Requirements: Students Transferring with 45-89 Credits (prior to first attendance at Seattle University)

Students completing a first undergraduate degree who have fewer than 90 transfer credits will normally complete a minimum of 26 core credits at Seattle University: PHIL 210/220, THRS Phase II (200 level), THRS Phase III (300 level), interdisciplinary course, senior synthesis, and upper-division ethics.

Phase One: Foundations of Wisdom

College Writing.....	5
Philosophy/History/Literature/Fine Arts	15 to 20
ENGL 120	Introduction to Literature
HIST 120	Origins of Western Civilization or
HIST 121	Studies in Modern Civilization
Fine Arts	(FINR 120, ART 100, 120, 161, 211, 212, 213, 314, 317; DRMA 101, 211, 212, 214, 250, 260; MUSC 100 or 101)
PHIL 110	Introduction to Philosophy and Critical Thinking

Transfer courses can be used to satisfy the above requirements in Phase One with the categories below. Note that only two courses from any one category will be counted towards fulfillment of the above requirements in Phase One:

- Communication, Journalism and Speech
- English and Literature (no English composition)
- Fine Arts, Art, Drama and Music (This category does not include skill and performance classes.)
- History
- Humanities
- Philosophy
- Religion

Modern Language and ASL classes do not fulfill Phase One course requirements.

Mathematics.....	5
Any five-credit course in mathematics on the 100-level or above for which the student is qualified, excluding intermediate algebra.	
Science	5
Any five-credit laboratory science course for which the student is qualified (e.g., biology, chemistry, general science, physics, but not computer science).	

Phase Two: Person in Society**Study of Person Sequence** 5**PHIL 220** **Philosophy of the Human Person**

PHIL 220 is only for students who have completed PHIL 110 at Seattle University.

Students who are not required to take Seattle University's PHIL 110 will take PHIL 210 in place of PHIL 220.

Social Science I 5

Choose from:

ANTH 120 **Anthropological Perspectives****CISS 120** **Poverty in America****PLSC 120** **Citizenship****PSYC 120** **Introductory Psychology****SOCL 120** **Sociological Perspectives****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:

ANTH 230 **Cultural Analysis****CRJS 200** **Deviance and Social Control****CRJS 210** **Law, Society and Justice****ECON 271** **Principles of Economics: Macro****ECON 272** **Principles of Economics: Micro****PLSC 200** **Introduction to American Politics****PLSC 230** **Comparing Nations****PLSC 250** **Introduction to Political Theory****PLSC 260** **Introduction to International Politics****PSYC 210** **Personality Adjustment****SOCL 210** **Social Problems****SOCL 219** **Deviance and Social Control****SOCL 222** **Society and Behavior**

Any two transfer courses from the following subjects and from different disciplines may satisfy Social Science I or II: anthropology, administrative justice/criminal justice, economics, geography, government/political science, psychology, and sociology. Students who major in one of the social science disciplines must take both the required Core Curriculum social science courses outside of their major disciplines.

Theology and Religious Studies Phase Two (200 level) 5

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

Phase Three: Responsibility and Service**Ethics** 5

Choose one of the following options:

BETH 351 **Business Ethics****PHIL 345** **Ethics****PHIL 351** **Business Ethics****PHIL 352** **Health Care Ethics**

PHIL 353	Ethical Issues in Science and Technology
PHIL 354	Ethics and Criminal Justice
PHIL 358	Communication Ethics
THRS 325	Core Ethics: Christian Perspective

Theology and Religious Studies Phase Three (300 level) 5

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

Interdisciplinary Course 3 to 5

Choose any three- to five-credit course that deals with a contemporary issue from a multidisciplinary perspective. A list of approved interdisciplinary courses will be listed in the online quarterly schedule of classes and usually will be numbered 480-484.

Senior Synthesis 3 to 5

NOTE: Students may elect to fulfill the college writing requirements through credit by examination. For students entering Seattle University as transfer students, the requirement of having 15 prior credits at Seattle University is waived for the purposes of this exam only.

A history course, in addition to the core requirements is required of all majors in the College of Arts and Sciences. Students may select HIST 121 or 231 or equivalent.

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

It is recommended that the two sequences in Phase One and Phase Two be completed before a student begins Phase Three.

Essential Core for Transfer Students with 90 or More Credits

All students completing a first undergraduate degree who have 90 transfer credits or more, will normally complete a minimum of 21 core credits at Seattle University: PHIL 210/220, THRS Phase II (200 level), interdisciplinary course, senior synthesis, and upper-division ethics.

Transfer students who matriculate with 90 or more credits and who have not satisfied PHIL 110 with a transfer course will receive a waiver in PHIL 110.

Students who transfer in with 90 credits or more will not be required to take a 300-level theology course.

Essential Core for Second Undergraduate Degree

For a student seeking a second baccalaureate degree, essential core to be completed at Seattle University is a minimum of 13 credits: a five-credit 200-level theology and religious studies course, senior synthesis appropriate to the new degree, a five-credit upper-division ethics course.

Thematic Options in the Core

The Core Curriculum offers students the option of fulfilling a portion of their core requirements by enrolling in one of three thematic tracks. These tracks, Core Honors (HONRC), Diversity, Citizenship, Social Justice (DCSJ), and Faith and the Great Ideas (F&GI) are described below.

Core Honors Track (HONRC)

Paul Kidder, PhD, Director

The core honors track consists of thematically linked, seminar sections of nine required core courses. Students enrolled in this track take one Core Honors course per quarter for their first three years. Open to students in all majors, core honors is ideal for students in the College of Nursing, the Albers School of Business, and the College of Science and Engineering, for whom the two-year university honors program might not be feasible due to specific major requirements. Participation in core honors is by invitation to selected students based upon review of the application for admission to the university.

Requirements

Students must successfully complete the core honors sections of the nine required courses. With permission of the director, students in some colleges and majors – particularly nursing, science, engineering, and diagnostic ultrasound – are permitted to take selected core honors courses out of sequence.

All students enrolled in core honors are required to take all of the courses in the track, regardless of Advanced Placement or International Baccalaureate credit. This is to ensure the integrity of the core honors experience. In cases where a student received AP or IB credit for a particular course (ENGL 110, College Writing, for example), that AP or IB credit is awarded as University elective credit.

First Year

Fall	ENGL 110 College Writing: Inquiry and Argument
Winter	PHIL 110 Introduction to Philosophy and Critical Thinking
Spring	ENGL 120 Introduction to Literature

Second Year

Fall	HIST 121 Studies in Modern Civilization*
Winter	PHIL 220 Philosophy of the Human Person
Spring	Core Honors section of Social Science*

Third Year

Fall	Core Honors section of Theology and Religious Studies Phase II
Winter	Core Honors section of Ethics
Spring	Core Honors section of Theology and Religious Studies Phase III

*Seattle University core requirements not satisfied by completion of this track vary depending upon college and majors. For instance, the core honors social science course satisfies either Social Science I or Social Science II. For nursing students (who are required to take PSYC 120), the course satisfies Social Science II; for business students (who are required to take ECON 271), the course satisfies Social Science I. For engineering students, the course satisfies Social Science I; for science and arts and science students, the course satisfies either Social Science I or II, but not both.

**Diversity, Citizenship,
Social Justice Core Track (DCSJ)**

Gabriella Gutierrez y Muhs, PhD, Director

This track aims to provide students an interdisciplinary approach to diversity, citizenship, and social justice and to bring them together in a community of professors and peers exploring similar issues through a 35-credit sequence of courses. Each quarter, SU Online identifies courses as a part of the DCSJ track and further identifies each course focus as diversity (D), citizenship (C), or Social Justice (SJ).

Requirements

Students must take 35 credits of courses identified as part of DCSJ track including at least one course in each area:

Diversity—DCSJ (5)

Citizenship—DCSJ (5)

Social Justice—DCSJ (5)

Core interdisciplinary course identified as meeting DCSJ requirements (5)

Other DCSJ courses (15)

For further information, please contact the director.

Faith and the Great Ideas Core Track (F&GI)

Michael Andrews, PhD, Director

The F&GI Academic Program consists of special sections of required core courses designed to give freshmen an integrated and coherent liberal arts education. Based on a model of the Jesuit intellectual tradition, the Program aims to assist its students in acquiring a strong foundation for any academic major or profession, a deeper intellectual awareness of moral values, a global perspective that takes seriously the relationship between faith and justice, a keener sense of personal freedom and responsibility, a critical understanding of the natural environment, and an engaging and comprehensive conversation with excellent teachers and scholars who study great thinkers, writers, and artists from ancient, medieval, and modern times.

Requirements

Students must successfully complete five of the special F&GI sections of the following core courses:

ART 211	Survey of Western Art I: Prehistoric to Medieval
CISS 120	Poverty in America
ENGL 110	College Writing: Inquiry and Argument
ENGL 120	Introduction to Literature
HIST 120	Origins of Western Civilization
HIST 121	Studies in Modern Civilization
HIST 231	Survey of the United States
ISSC 120	Introduction to Geology
PHIL 110	Introduction to Philosophy and Critical Thinking
PHIL 220	Philosophy of the Human Person
THRS 227	God and Evil

F&GI students who successfully complete any five of these special core courses receive a certificate of completion at the end of their freshman year.

As many as two transfer and/or Advanced Placement courses may apply toward completion of program requirements.

For further information or to apply for admission into the F&GI Program, please write to the program director or check the website: seattleu.edu/core/F&GI.

College of Arts and Sciences

TBD, 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 advisors create a supportive and 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 Anthropology, Sociology, and Social Work; Communication; Criminal Justice; Environmental Studies; English; Fine Arts; History; Military Science; Modern Languages and Cultures; Nonprofit Leadership; Philosophy; Political Science; Psychology; Public Affairs; Sport and Exercise; Theology and Religious Studies.

The program divisions are Asian Studies, University Honors, International Studies, Law Scholars, Liberal Studies, Prelaw, Premajor Studies, and Women 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 Fine Arts
Bachelor of Music
Bachelor of Public Affairs
Bachelor of Science
Bachelor of Social Work

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 through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages 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 language requirement may not also be used to fulfill major requirements.

A minimum cumulative grade point average of 2.00 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 Studies Program

The Premajor Studies Program is for freshmen and sophomores who wish to explore academic programs and careers before committing themselves to a major. See the Premajor Studies Program 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

Department of Anthropology, Sociology and Social Work

Jodi A. O'Brien, 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. The objective of these courses is to provide a 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.

Addiction Studies Courses

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.

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. Satisfies the core interdisciplinary requirement. Cross-listed with NURS 483.

ADST 491-493 Special Topics 1 to 5

ADST 496 Independent Study 1 to 5

Open only to students with sufficient academic background to pursue independent study. Prerequisite: Permission of Chair.

Asian Studies Program

Sharon A. Suh, PhD, Director

Objectives

Asian Studies is a multi-disciplinary program that prepares students to intellectually engage in one of the most dynamic and important areas of the world. It will enable students to understand diverse patterns of Asian life and society, strengthen their skills and knowledge of the area through intense language and interdisciplinary training, and enhance their appreciation of Asian culture and civilization.

Students majoring in Asian Studies will be prepared to undertake entry-level professional jobs in the realm of Asian commerce, communication, or social justice work, or continue on to advanced studies of Asian and international studies in a variety of disciplines.

Degree Offered

Bachelor of Arts

Major Offered

Asian Studies

Minor Offered

Asian Studies

Requirements

In order to earn the bachelor of arts degree with a major in Asian Studies, students must complete a minimum of 180 credits with a cumulative and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above	.....	5
Lab Science	.....	5
Fine Arts (one approved 5 credit course; see course descriptions)	.....	5
PHIL 220 Philosophy of the Human Person		5
Social Science I (different discipline from Social Science II)		5
Social Science II (Choose ECON 271, ECON 272, PLSC 230 or PLSC 260)		*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 to 5

*Included in major GPA.

II. College of Arts and Sciences Requirements

Chinese or Japanese 115, 125, 135 or equivalent	15
HIST 121 Studies in Modern Civilization	5

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examination. International students educated to age 16 in an Asian language may request a waiver of the language requirement.

Courses taken to fulfill the major in Asian Studies may not simultaneously be used to fulfill core or college requirements. For example, a single course may not count as both a core interdisciplinary course and a major elective.

III. Major Requirements

60 credits in three areas of Asian Studies, including:

Area I: Foundation for Asian Studies

Chinese or Japanese 215, 225, 235	*15
AIST 200 Introduction to Asian Studies	5

*International students educated to age 16 in an Asian language may request a waiver of the language requirement, substituting additional approved electives in Asian Studies areas.

Area II: Modern Themes of Asian Studies

Choose two of the following courses that focus on theoretical methodology of Asian Studies, emphasizing issues beyond state-nation boundaries to cover larger regional concerns:..... 10

AIST 480	Critical Issues in SE Asia
AIST 480	Human Rights in Asia
HIST 388	East Meets West
HIST 389	Modern Asia Revolutions
PSYC 483	Multi-Cultural Psychology: Vietnam and Vietnamese Americans

Special Topic Courses:

Contemporary South Asian Literature and Culture
Household, Family and Society in Asia

Interdisciplinary Course:

CMJR 480-483 Sex Justice in Asia

Area III: Major Electives

Choose six courses from the following, including courses from at least three different disciplines: 30

AIST 480	Interdisciplinary Core Course
ART 213	Survey of Asian Art
ART 318	Art Traditions of Japan
ART 319	Arts of China
ENGL 361	Literature of India
ENGL 430	Japanese Drama
HIST 381	Pre-Modern China
HIST 383	Modern China
HIST 385	Traditional Japan
HIST 386	History of Southeast Asia
HIST 387	Modern Japan
PLSC 332	Politics of Japan
PLSC 334	Chinese Politics
THRS 231	Christian-Buddhist Dialogue
THRS 333	Buddhism and Gender
THRS 334	Asian Religions
LANGUAGE	Chinese or Japanese above 235

Special Topic Courses:

Cultural History of Asia

European Colonialism in Asia

China's Past and Present

History and Religion of India

Chinese Religion

Interdisciplinary Core course:

CMJR 480-483 Cross Cultural Communications: China

A maximum of 10 credits may be selected as major electives from the following. Students interested in economics and business should seek special advising from the director of the program.

ECON 271	Principles of Economics—Macro
ECON 272	Principles of Economics—Micro
ECON 325	International Political Economy
ECON 330	International Economic Events
ECON 375	Asian Economic Development
ECON 376	Economic Development
ECON 378	Financial Markets & Economic Development
ECON 472	International Economics
ECON 477	Policy Analysis in International Development
ECON 479	Economic Growth
INST/PLSC 365	East Asian Security

PLSC 230	Comparing Nations
PLSC 260	Introduction to International Politics
PLSC 362	Global Governance

V. Additional Requirements

General electives to total 180 credits

1. No more than 15 credits from this major will be counted towards any minor.

Minor in Asian Studies

To earn a minor in Asian Studies, students must take 30 credits in Asian studies, including:

Chinese or Japanese 115, 125, and 135 *15

Approved Asian Studies electives, one of which must be in modern themes of Asian studies 15

*International students educated to age 16 in an Asian language may request a waiver of the language requirement, substituting additional approved electives in Asian Studies areas.

See policy for minors (84-1) for more information.

Asian Studies Courses

AIST 200 Introduction to Asian Studies..... 5

A major requirement introducing the main themes and eras in the field of Asian studies; intended to prepare students for continuing studies in the discipline.

AIST 291-293 Special Topics 1 to 5

AIST 296 Directed Study..... 1 to 5

AIST 391-393 Special Topics 1 to 5

AIST 396 Directed Study..... 1 to 5

AIST 480-483 Interdisciplinary Core Course 3 to 5

Title and content may change each term.

AIST 491-493 Special Topics 1 to 5

AIST 496 Independent Study 1 to 5

By permission only.

Catholic Studies Minor

Robert J. Deltete, PhD, Director

Vision

The Catholic studies minor at Seattle University explores the Catholic tradition in the context of philosophy and theology, the natural and social sciences, business and law, literature, art, and culture. Students will engage the wealth and depth of Catholic thought and culture in history and in the contemporary world, and will probe intellectual and ethical issues raised by the dialog of Catholicism with other fields of human inquiry. This program provides scholarly means of assessing the weaknesses and strengths of Catholic tradition in all of its dimensions. Students will approach Catholic tradition both critically and constructively for its contribution to wise and fruitful responses to the economic, political, cultural, and ecological challenges faced by humankind today.

Seattle University's minor in Catholic studies stands in continuity with the centuries-long project of *fides quaerens intellectum*, "faith seeking understanding." This quest for understanding engages all fields of human knowledge, for Catholic theology holds that God is revealed not only in the Word of scripture but also in the whole created world. The Catholic vision includes a notion of nature as the product of dynamic divine providence, of the fine arts as an intimation of divine beauty, and of history as a drama of revelation and response. Catholic tradition rests on a vision of the transcendent meaning and value of the human person, and of the earth and its life forms. In Ignatian terms, appropriate to Seattle University's Jesuit identity, the tradition attempts to assist human beings to become who they really are precisely by seeking and seeing God in all things. The Catholic studies minor is intended for students in all disciplines of the university.

Objectives

- To increase awareness of and insight into the history, culture, and intellectual traditions of Catholicism.
- To provide a more systematic means to encounter, learn from, challenge, and build upon Catholic traditions as expressed in a variety of different fields, among them theology, philosophy, spirituality, literature, art, and the natural and social sciences.
- To promote a better understanding of the relations between theology and philosophy, faith and reason, and science and religion, particularly in the context of Catholicism.
- To enable students to respond to economic, political, cultural, and ecological challenges through the knowledge they have achieved in assessing the strengths and weaknesses of Catholic traditions, including traditions of Catholic social thought.

Minor in Catholic Studies

In order to earn a minor in Catholic studies, students must complete 30 credits in the approved courses, with a minor/program grade point average of 2.00. No more than 15 credits from any one discipline may be applied to the minor. At least 20 credits must be taken at Seattle University.

Courses selected for the minor in Catholic studies may include those which fulfill university core or elective requirements and those taken to fulfill a major.

Required Course:

THRS 201 Catholic Traditions 5

25 credits from the following, including a minimum of 5 credits in the natural/social sciences, and a minimum of 15 credits of upper-division (300- and 400-level) courses:

College of Arts and Sciences

ANTH 330/SOCL 330	Anthropology of Religion
ANTH 438	People of the Pacific Northwest
ENGL 320	The Bible as Literature
ENGL 326	Dante's Divine Comedy
ENGL 291-293,	Special Topics:
ENGL 491-493	Catholic Themes in Literature
	Literature and Christianity
	Spiritual Autobiographies
	Theology and Literature
ENGL 439	Medieval Women and Writing
GAST 407	Christianity in the Global African World
HIST 231	Survey of the United States: Christian Perspectives
HIST 306	Europe of the High Middle Ages
HIST 309	Europe in the Reformation Era
HIST 391-393	Special Topics:
	The Birth of Christianity
	Survey of Church History
HONR 103	Humanities Seminar: Thought (Medieval Philosophy)
PHIL 302	Medieval Philosophy
PHIL 316	Philosophy of Religion
PHIL 322	Catholic Social Philosophy
PHIL 334	Nature and Cosmos
PHIL 375	Catholic Feminist Thought
PHIL 485	Major Figures in the Traditions: Lonergan
PSYC 230	Psychology of Religion
PSYC 483	Multi-cultural Psychology:
	Vietnam and Vietnamese Americans
SOCW 491	Special Topics: Contemporary Indian Reservations
THRS 202	God and Evil
THRS 204	Women and Theology

THRS 206	Christology
THRS 207	Church as Community
THRS 208	Sacraments: Doors to the Sacred
THRS 209	Jesus and Liberation
THRS 291-293	Special Topics: Catholic Worker Movement Religion and Science Spiritual Autobiographies Theology of Peace
THRS 303	The Gospel of Jesus Christ
THRS 304	The Message of Paul
THRS 305	John: A Different Gospel
THRS 306	Women and the New Testament
THRS 311	Latin American Liberation Theology
THRS 320	Catholic Social Teaching
THRS 324	Religion and Ecology
THRS 325	Core Ethics: Christian Perspective
THRS 341	Ignatian Spirituality
THRS 419	Early Christian Theology
THRS 420	Medieval and Reformation Theology
THRS 428	Modern and Contemporary Theology

Matteo Ricci College

HUMT 302/THRS 205	St. Ignatius's Theology of the Person
HUMT 391	Special Topics: Great Jesuit Thinkers
HUMT 471	Jesuit Education

College of Science and Engineering

PHYS 481	Cosmology and Culture
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Communication

Gary L. Atkins, MA, 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, visual, and digital communication.

The communication studies major offers a blend of theoretical understanding and practical experience in a variety of contexts, including rhetorical, interpersonal, small group, organizational, and mass communication situations.

The journalism major develops students' competence in gathering and disseminating stories through the media, using reporting, writing, visual, and digital skills. Journalism majors can emphasize preparation for journalistic careers in print, broadcast, or online media.

The strategic communications major introduces students to an integrated approach to managing all communications functions, including the underlying theoretical frameworks, innovative industry practices, and influencing the role of communication in global organizations.

Degree Offered

Bachelor of Arts

Majors Offered

Communication Studies

Journalism

Strategic Communications

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

General Program Requirements

Admission: Entry into the communication studies, journalism, or strategic communications major requires a 2.75 grade point average. New transfer students entering Seattle University must have at least a 2.75 GPA in their previous college course work. Current Seattle University students changing majors to enter the Communication Department must have a 2.75 GPA in their previous Seattle University course work.

Minimum Grades: All majors in the Communication Department must obtain a minimum grade of C (2.00) in each of the following required courses: CMJR 205, CMJR 225, and CMJR 245. In addition, journalism majors must obtain a minimum grade of C (2.00) in each of the following required courses: CMJR 210, CMJR 220, CMJR 300, CMJR 345, and CMJR 445. Please note that many of these courses are prerequisites for more advanced courses. Students must receive a grade of C (2.00) or better in all of these prerequisite courses in order to take advanced courses where those prerequisites are required.

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 and major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above	.....	5
Lab Science	.....	5
Fine Arts (one approved 5 credit course; see course descriptions)	.....	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 494 required for major)	.....	*5

*Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135 or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences 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

60 credits in communication courses, including:

Area I: Communication Foundation

CMJR 205 Introduction to Rhetorical Reasoning..... *5

CMJR 225 Dynamics of Communication *5

CMJR 245 Media, Society, and Individual *5

Area II: Rhetorical Study

CMJR 230 Public Speaking 5

CMJR 350 Persuasion..... 5

CMJR 431 Advanced Rhetorical Theory 5

Area III: Social Science

Choose two social science courses (with approval of advisor) from the following:..... 10

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 advisor approval) 15

Area V: Communication Studies Capstone

CMJR 450 Communication and Social Change 5

NOTE: 1. Courses marked with asterisk (*) must be graded C (2.00) or better to count toward the major or to count as prerequisites for appropriate advanced courses. 2. 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

In order to earn the bachelor of arts degree with a major in journalism, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature.....	5
MATH 107 or 110 or above		5
Lab Science		5
Fine Arts (one approved 5 credit course; see course descriptions).....		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 494 required for major)		*5

*Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences language requirement may not be used to fulfill communication 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

60 credits in communication courses, including:

Area I: Communication Foundation

CMJR 205	Introduction to Rhetorical Reasoning.....	*5
CMJR 225	Dynamics of Communication	*5
CMJR 245	Media, Society, and Individual.....	*5

Area II: Reporting and Writing

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

Advanced Reporting/Writing: Choose two of the following three courses: 10

CMJR 315	Literary Journalistic Writing
CMJR 320	Persuasive and Critical Writing
CMJR 325	International Affairs Writing

Area III: Digital Convergence Requirements

CMJR 222	Introduction to Digital Production	5
CMJR 345	Digital Journalism Square I.....	*5
CMJR 445	Digital Journalism Square II.....	*5

Area IV: Communication Electives

Choose 300- 400-level CMJR electives (must be in regular courses not in internship. Internships may be taken as part of general electives) 5

NOTE: 1. Courses marked with asterisk (*) must be graded C (2.00) or better to count toward the major or to count as prerequisites for appropriate advanced courses. 2. 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 Strategic Communications

In order to earn the bachelor of arts degree with a major in strategic communication, students must complete a minimum of 180 credits with a cumulative grade point average of 2.00 and major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature.....	5
MATH 107 or 110 or above		5
Lab Science		5
Fine Arts (one approved 5 credit course; see course descriptions).....		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 494 required for major)		*5

*Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135 or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences 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

60 credits in communication courses, including:

Area I: Communication Foundation

CMJR 205 Introduction to Rhetorical Reasoning..... *5

CMJR 225 Dynamics of Communication *5

CMJR 245 Media, Society, and Individual *5

Area II: Strategic Communications Concentration

CMJR 230 Public Speaking 5

CMJR 310 Strategic Communications Writing 5

CMJR 370 Strategic Communications I..... 5

CMJR 371 Strategic Communications II..... 5

Choose one of the following:..... 5

CMJR 320 Persuasive and Critical Writing

CMJR 350 Persuasion

Choose one of the following four courses:..... 5

CMJR 375 Global Strategic Communications

CMJR 377 Public Affairs

CMJR 410 Strategic Communications Research

CMJR 470 Strategic Communications Practice

Choose one of the following:..... 5

CMJR 475 Strategic Communications Consultancy

CMJR 495 Internship

Area III: Electives

Choose communication electives (with advisor approval)..... 10

NOTE: No more than one additional 200-level course may be counted.

Recommended electives include any optional courses in Strategic Communications not selected above or:

CMJR 355	Interpersonal Communication
CMJR 383	Organizational Communication
CMJR 384	Conflict Resolution
CMJR 385	Cross-cultural Communication
CMJR 431	Advanced Rhetorical Theory
CMJR 450	Communication and Social Change

Advanced Journalism writing classes

Courses chosen from Marketing and Nonprofit Leadership

NOTE: 1. Courses marked with asterisk (*) must be graded C (2.00) or better to count toward the major or to count as prerequisites for appropriate advanced courses. 2. 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	Introduction to Rhetorical Reasoning.....	5
CMJR 225	Dynamics of Communication	5
CMJR 245	Media, Society, and Individual.....	5
CMJR 494	Communication Rights and Law	5
CMJR	Approved electives (300-level or above).....	10

See policy for minors (84-1) for more information.

Minor in Journalism

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

CMJR 210	Introduction to Media Writing.....	5
CMJR 220	Media Writing II	5
CMJR 222	Introduction to Digital Production	5
CMJR 245	Media, Society, and Individual.....	5
CMJR 494	Communication Rights and Law	5
CMJR	Approved elective (300-level or above)	5

See policy for minors (84-1) for more information..

Communication Courses

CMJR 205	Introduction to Rhetorical Reasoning	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 news media. Practice in writing, source development, and coverage of beats. Prerequisite: CMJR 210 and departmental permission.		
CMJR 222	Introduction to Digital Production	5
Introduction to digital design, utilizing audio and video storytelling for Internet, television and computer-based journalistic media. Prerequisite: CMJR 210.		
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, conversational English skills required.		
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 291-293	Special Topics	1 to 5
Title and content vary.		
CMJR 296	Directed Study	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. Prerequisite: CMJR 220 or departmental 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 departmental permission.
- CMJR 310 Strategic Communications Writing 5**
Writing and editing press releases, reports and other materials for public relations. Prerequisite: CMJR 370 or 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 departmental 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 departmental permission.
- CMJR 325 International Affairs Writing 5**
Focuses on writing and reporting on international affairs. This course "assigns" each student to different parts of the world (from within the classroom, through readings, through online research and international community resources available within Seattle). Prerequisite: CMJR 220 or departmental 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. Prerequisite: 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: Junior or senior standing.
- 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 339 Introduction to Photography..... 5**
Introduction to basic theory, techniques, and history of still photography. Emphasis on use of the camera as an effective tool of communication in journalism. Students must have use of a digital camera with adjustable lenses.
- CMJR 340 Advanced Photography 5**
Individual projects emphasize advanced topics in photography for journalism. Discussion of ethical issues confronting photographers. Students must have use of a digital camera with adjustable lenses. Prerequisite: CMJR 339.
- CMJR 345 Digital Journalism Square I 5**
Practice in reporting, writing and editing for online journalism. Students undertake the production of a web-based medium working with faculty and visiting professionals. Prerequisite: CMJR 222, 300, or departmental permission.
- 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 or departmental permission.
- CMJR 353 Intercollegiate Speech and Debate 1**
Study and preparation of competitive speeches and debates. Requires participation on the Seattle University Speech and Debate Team. May be repeated to a maximum of 5 credits. Prerequisite: instructor 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 departmental permission.
- CMJR 370 Strategic Communications I 5**
An introduction to the theories, concepts, and practices in influencing and managing public opinion, public affairs, and advocacy. Includes an understanding of the different styles and formats in the development of messages used in the mass media. Ethical issues confronting strategic communications professionals.

CMJR 371	Strategic Communications II	5
Practice of issues management, crisis communications and social advocacy in the management of reputation and image. Pre-requisite: CMJR 370.		
CMJR 375	Global Strategic Communications.....	5
A comparative analysis of the different public relations models and practices worldwide, the implications of the convergence of media technologies to the public relations industry, and understanding the impact of globalization as a technological, economic, and cultural phenomenon, and its relevance for public relations professionals. Prerequisite: CMJR 370.		
CMJR 377	Public Affairs	5
An introduction to function and practice of issues management in the public relations industry, and its implications for understanding reputation management, crisis communication and public affairs. Prerequisite: CMJR 370 or permission.		
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 departmental 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 game theory. Prerequisites: CMJR 225 or departmental permission.		
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 391-393	Special Topics	1 to 5
CMJR 396	Directed Study.....	1 to 5

- CMJR 405 Studies in Public Discourse..... 5**
 Analysis of rhetorical strategies and social influence of public discourse in contemporary and historical eras. Coverage of basic rhetorical criticism methods as applied to a major case study (e.g. Rhetoric of Feminism, Rhetoric of Science, etc.). Case studies vary from quarter to quarter. Consult the department and SU Online for specifics. This course may be repeated providing the repeat sections focus on different cases studies. Prerequisite: CMJR 205.
- CMJR 410 Strategic Communications Research 5**
 An understanding of the different measurement tools in the PR industry. Techniques such as: public opinion polling and survey research; experimental design and research; fact-finding and applied research; observation and performance measurement; issue tracking; focus groups and interviews. Prerequisite: CMJR 370 or permission.
- CMJR 431 Advanced 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 or departmental permission.
- CMJR 445 Digital Journalism Square II 5**
 Advanced practice in reporting, writing and editing for online journalism. Students undertake the production of a web-based medium working with faculty and visiting professionals. Prerequisite: CMJR 345 or departmental permission.
- CMJR 450 Communication 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. Major capstone course for communication studies majors. Prerequisites: All required 200-level major courses (CMJR 205, 225, 245, 230) and senior standing. Note: CMJR 450 is currently only offered in spring quarter. Plan your program accordingly. Open to non-majors without prerequisites by permission.
- CMJR 470 Strategic Communications Practice..... 5**
 Theory, techniques and models related to setting long- and short-term goals and objectives, designing strategies and tactics, segmenting audiences, analyzing problems and opportunities, communicating with top management, developing budgets, contingency planning for crises and disasters, managing issues, etc. Prerequisite: CMJR 370 or permission.
- CMJR 475 Strategic Communications Consultancy 5**
 Individual and team project-based class in which the student operates as a strategic communications consultant with an industry or non-profit client. Client and student focus is on a specific project with clear deliverables. Prerequisite: CMJR 371 and permission.
- CMJR 480-483 Interdisciplinary Core Courses..... 3 to 5**
 Title and content vary.

- CMJR 489 Media and Social Responsibility 5**
Examination of the role of journalism, public relations, mass media and media technology in contributing to social responsibility and social justice. Special field projects. Prerequisites for majors: All required 200 level major courses (CMJR 205, 225, 245, 210, 220), and CMJR 300. Open to non-majors without prerequisites by departmental permission.
- CMJR 491-493 Special Topics 1 to 5**
Title and content vary.
- CMJR 494 Senior Synthesis: Communication Rights and Law..... 5**
Understanding freedom of communication and the right to expression as a universal human right. Judicial and legislative approaches defining the right to communicate. Case studies in political, commercial, and sexual speech rights in the United States in particular. Prerequisite: senior standing.
- 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 departmental permission only.

Contemporary Issues in 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.

Contemporary Issues in Social Science

CISS 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.		
CISS 191-193	Special Topics	2 to 5
CISS 196	Directed Study	1 to 5
CISS 291-293	Special Topics	2 to 5
CISS 296	Directed Study	1 to 5

Criminal Justice

Jacqueline B. Helfgott, PhD, Chair

Objectives

Criminal Justice is an interdisciplinary social science involving the study of crime and societal responses to it. The Criminal Justice Department offers degree and specialization options designed to prepare students for a broad range of career opportunities in the criminal justice field and for graduate study in criminology/criminal justice, forensic psychology, forensic science, and law. The criminal justice curriculum provides foundation for understanding contemporary criminological theory and criminal justice practice with scholarly emphasis and critical appraisal of law enforcement, the courts, and corrections. The criminal justice major is designed to provide knowledge of the components of criminal justice system and stages of criminal justice process while allowing students to concentrate study in a particular area of interest within the criminal justice field. Our goal is to provide students with conceptual and empirical knowledge that will foster sophisticated thinking, reflection, and action — to develop in students the knowledge, insight, critical thinking skills, values, and ethical consciousness essential to becoming responsible practitioners, managers, researchers, and leaders in the criminal justice field. The driving spirit of the Criminal Justice Department reflects the basic foundation of Jesuit education—reflection and action. We seek to develop a spirit of inquiry and innovation in students—encouraging them to ask “why not?” of things not tried and to reflect and think critically about crime and justice issues and the systems that deal with them in our complex society.

The department offers the bachelor of criminal justice (BCJ) with specialization in administration of justice, criminology and criminal justice theory, forensic psychology, and forensic science and the bachelor of science (BS) major in criminal justice, with specialization in forensic psychology and forensic science. Internship and research opportunities supplement course work by providing students with experience working and conducting research within criminal justice agencies. Graduates are prepared for positions in law enforcement, courts, corrections, and human service in private, county, state, and federal agencies and/or to pursue graduate study in criminal justice, criminology, forensic science, forensic psychology, or law.

Degrees Offered

Bachelor of Criminal Justice

Bachelor of Science

Majors Offered

Criminal Justice with specialization in Administration of Justice (BCJ)

Criminal Justice with specialization in Criminology/Criminal Justice Theory (BCJ)

Criminal Justice with specialization in Forensic Psychology (BCJ or BS)

Criminal Justice with specialization in Forensic Science (BCJ or BS)

Criminal Justice with Departmental Honors (BCJ or BS)

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 and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 110 or above	.....	5
Lab Science (fulfilled in major for forensic science specialization only).....		5
Fine Arts (one approved 5 credit course; see course descriptions).....		5
PHIL 220	Philosophy of the Human Person.....	5
Social Science I (fulfilled in major for forensic psychology and forensic science specialization)		5
Social Science II (not CRJS and different discipline from Social Science I)		5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division: PHIL 354 recommended)		5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary Core Course (fulfilled in major for forensic science specialization and other specializations if CRJS 480 Forensic Science or CRJS 481 Murder Movies and Copycat Crime is selected as interdisciplinary core option).....		3 to 5
Senior Synthesis (CRJS 487 required).....		*3

NOTE: 1. A course used to satisfy the core senior synthesis may not also apply to the major requirements. 2. Interdisciplinary core courses taken through the criminal justice program will fulfill both the interdisciplinary core requirement and major requirement (either as a specialization requirement or criminal justice elective depending on the course taken and degree/specialization option). 3. Criminal justice majors are required to take CRJS 487 Senior Synthesis to fulfill the core senior synthesis requirement with the exception of students obtaining a double major or double degree in which case the senior synthesis from the second major/degree will fulfill the core senior synthesis requirement.

*Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill criminal justice major requirements.

Choose one of the following two courses: 5

HIST 121 Studies in Modern Civilization

HIST 231 Survey of the United States

Specialization Areas

Choose one of the following specializations:

Administration of Justice Specialization

III. Major Requirements

65 credits in criminal justice and relevant designated disciplines, including:

CRJS 110 Introduction to Criminal Justice 5

CRJS 209 Criminology 5

CRJS 301 Criminal Justice Statistics 5

CRJS 302 Criminal Justice Research Methods 5

CRJS 312 Criminal Law 5

CRJS 430 Criminal Justice Organizations 5

Area I: Police

Choose one from the following four courses: 5

CRJS 306 Police and Society

CRJS 320 Criminal Investigation

CRJS 401 Criminal Profiling

CRJS 422 Issues in Contemporary Law Enforcement

Area II: Courts

Choose one from the following three courses: 5

CRJS 210 Law, Society and Justice

CRJS 310 The American Court System

CRJS 315 Criminal Procedure

Area III: Corrections

Choose one from the following four courses: 5

CRJS 308 Behind Bars: The American Prison

CRJS 350 Community Corrections

CRJS 420 Working with Offender Populations

CRJS 423 Punishment and Social Theory

Area IV: Specialization Electives

Choose from the following specialization electives.....		20
ADST 480	Introduction to Alcohol and Drug Addiction (3)	
CRJS 200	Deviance and Social Control	
CRJS 303	Juvenile Justice	
CRJS 360	Forensic Psychology	
CRJS 400	Victimology	
CRJS 405	Gender, Race and Crime	
CRJS 410	The Polygraph	
CRJS 450	The Psychopath	
CRJS 452	Serial Murder	
CRJS 455	ATF Practicum (1)	
CRJS 456	Forensics Practicum (3)	
CRJS 457	Trial Skills Practicum (3)	
CRJS 459	Research Practicum (1 to 10)	
CRJS 460	Forensic Anthropology	
CRJS 465	Crime Scene and Medico-legal Death Investigation	
CRJS 480	Forensic Science	
CRJS 481	Murder Movies and Copycat Crime (3 to 5)	
CRJS 495	Internship (1 to 10)	
CRJS	Special Topics Courses (1 to 5)	
PUBA 401	Foundations of Public Administration (3 to 5)	

NOTE: 1. A maximum of 30 community college credits may apply to this specialization. 2. Any of the required police, courts, and corrections courses not chosen as administration of justice requirements may count as administration of justice specialization electives. 3. Special topics courses may fulfill police, courts, or corrections requirements if deemed applicable and approved by the program chair. 4. PSYC 303 and PSYC 305 fulfill CRJS 301 and CRJS 302 for students obtaining a double major or double degree in criminal justice and psychology.

Criminology and Criminal Justice Theory Specialization**III. Major Requirements**

65 credits in criminal justice and relevant designated disciplines, including:

CRJS 110	Introduction to Criminal Justice	5
CRJS 200	Deviance and Social Control.....	5
CRJS 209	Criminology	5
CRJS 301	Criminal Justice Statistics	5
CRJS 302	Criminal Justice Research Methods	5
CRJS 312	Criminal Law	5
CRJS 303	Juvenile Justice	5
CRJS 400	Victimology	5
CRJS 405	Gender, Race and Crime.....	5
CRJS 423	Punishment and Social Theory	5
CRJS 430	Criminal Justice Organizations	5

Choose from the following specialization electives:..... 10

ADST 480	Introduction to Alcohol and Drug Addiction (3)
CRJS 210	Law, Society and Justice
CRJS 306	Police and Society
CRJS 308	Behind Bars: The American Prison
CRJS 310	The American Court System
CRJS 315	Criminal Procedure
CRJS 320	Criminal Investigation
CRJS 350	Community Corrections
CRJS 360	Forensic Psychology
CRJS 401	Criminal Profiling
CRJS 410	The Polygraph
CRJS 420	Working with Offender Populations
CRJS 422	Issues in Contemporary Law Enforcement
CRJS 450	The Psychopath
CRJS 452	Serial Murder
CRJS 455	ATF Practicum (1)
CRJS 456	Forensics Practicum (3)
CRJS 457	Trial Skills Practicum (3)
CRJS 459	Research Practicum (1 to 10)
CRJS 460	Forensic Anthropology
CRJS 465	Crime Scene and Medico-legal Death Investigation
CRJS 480	Forensic Science
CRJS 481	Murder Movies and Copycat Crime (3 to 5)
CRJS 495	Internship (1 to 10)
CRJS	Special Topics Courses (1 to 5)

NOTE: 1. A maximum of 30 community college credits may apply to this specialization.
 2. Sociology courses not listed may be selected as criminology electives if deemed applicable and approved by the program chair. 3. PSYC 303 and PSYC 305 fulfill CRJS 301 and CRJS 302 for students obtaining a double major or double degree in criminal justice and psychology.

Forensic Psychology Specialization

III. Major Requirements

65 credits in criminal justice and relevant designated disciplines, including:

CRJS 110	Introduction to Criminal Justice	5
CRJS 209	Criminology	5
CRJS 301	Criminal Justice Statistics	5
CRJS 302	Criminal Justice Research Methods	5
CRJS 312	Criminal Law	5
CRJS 360	Forensic Psychology	5
CRJS 401	Criminal Profiling	5
CRJS 430	Criminal Justice Organizations	5
CRJS 450	The Psychopath	5

PSYC 120	Introduction to Psychology.....	5
PSYC 315	Abnormal Psychology	5
	Choose from the following specialization electives.....	10
ADST 429	Pharmacology of Alcohol and Other Drugs (3)	
ADST 480	Introduction to Alcohol and Drug Addiction (3)	
CRJS 200	Deviance and Social Control	
CRJS 210	Law, Society and Justice	
CRJS 303	Juvenile Justice	
CRJS 306	Police and Society	
CRJS 308	Behind Bars: The American Prison	
CRJS 310	The American Court System	
CRJS 315	Criminal Procedure	
CRJS 320	Criminal Investigation	
CRJS 350	Community Corrections	
CRJS 400	Victimology	
CRJS 405	Gender, Race and Crime	
CRJS 410	The Polygraph	
CRJS 420	Working with Offender Populations	
CRJS 422	Issues in Contemporary Law Enforcement	
CRJS 423	Punishment and Social Theory	
CRJS 452	Serial Murder	
CRJS 455	ATF Practicum (1)	
CRJS 456	Forensics Practicum (3)	
CRJS 457	Trial Skills Practicum (3)	
CRJS 459	Research Practicum (1 to 10)	
CRJS 460	Forensic Anthropology	
CRJS 465	Crime Scene and Medico-legal Death Investigation	
CRJS 480	Forensic Science	
CRJS 481	Murder Movies and Copycat Crime (3 to 5)	
CRJS 495	Internship (1 to 10)	
CRJS	Special Topics Courses (1 to 5)	
PSYC 222	Social Psychology	
PSYC 322	Growth and Development	
PSYC 330	Physiological Psychology	
PSYC 350	Theories of Personality	
PSYC 440	Cognitive Psychology	
SOCL 424	Sociology of Mental Illness	
SOCW 402	Mental Illness	

NOTE: 1. Psychology courses not listed may be selected as forensic psychology electives if deemed applicable and approved by the program chair. 2. Students planning to pursue graduate study in forensic psychology are strongly encouraged to double major, or at minimum, minor in psychology. 3. A maximum of thirty community college credits may apply to this specialization. 4. PSYC 303 and PSYC 305 fulfill CRJS 301 and CRJS 302 for students obtaining a double major or double degree in criminal justice and psychology. 5. No more than 20 credits of psychology courses from this specialization will be counted towards a psychology minor.

Forensic Science Specialization

NOTE: The BCJ/Forensic Science specialization will *not* prepare you for employment as a crime lab forensic scientist. Choose the BCJ/Forensic Science Specialization only if you are interested in earning a criminal justice degree with a stronger physical science foundation than you would obtain through the administration of justice or criminology specializations. Students planning to seek employment as a crime lab forensic scientist or a medico-legal death investigator immediately upon graduation or to pursue a career or graduate study in forensic science, should complete the BS major in Criminal Justice, with a Forensic Science specialization and are encouraged to double major, or at minimum, minor in chemistry, biology, or physics.

III. Major Requirements

68 credits in criminal justice and relevant designated disciplines, including:

CRJS 110	Introduction to Criminal Justice	5
CRJS 209	Criminology	5
CRJS 301	Criminal Justice Statistics	5
CRJS 302	Criminal Justice Research Methods	5
CRJS 312	Criminal Law	5
CRJS 320	Criminal Investigation	5
CRJS 430	Criminal Justice Organizations	5
CRJS 480	Forensic Science.....	5
CRJS 485	Forensic Science Lab	3
BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1

Choose one of the following two courses: 5

PHYS 105 Mechanics (non-calculus survey)

PHYS 121 Mechanics (calculus-based)

Choose from the following specialization electives: 10

ADST 429	Pharmacology of Alcohol and Other Drugs
ADST 480	Introduction to Alcohol and Drug Addiction (3)
CRJS 306	Police and Society
CRJS 310	The American Court System
CRJS 315	Criminal Procedure
CRJS 360	Forensic Psychology
CRJS 400	Victimology
CRJS 401	Criminal Profiling
CRJS 410	The Polygraph
CRJS 422	Issues in Contemporary Law Enforcement
CRJS 423	Punishment and Social Theory
CRJS 450	The Psychopath
CRJS 452	Serial Murder
CRJS 455	ATF Practicum (1)

CRJS 456	Forensics Practicum (3)
CRJS 457	Trial Skills Practicum (3)
CRJS 459	Research Practicum (1 to 10)
CRJS 460	Forensic Anthropology
CRJS 465	Crime Scene and Medico-legal Death Investigation
CRJS 495	Internship (1 to 10)

NOTE: 1. CRJS special topics or other criminal justice and/or physical science courses not listed may be selected as forensic science electives if deemed applicable and approved by the program chair. 2. The forensic science specialization may require additional preparation in science and math prerequisites. Students should work closely with their advisor to determine preparatory course work needed. 3. A maximum of 30 community college credits may apply to this specialization. 4. PSYC 303 and PSYC 305 fulfill CRJS 301 and CRJS 302 for students obtaining a double major or double degree in criminal justice and psychology.

Bachelor of Criminal Justice

Major in Criminal Justice with Departmental Honors

The honors major in criminal justice offers an opportunity for motivated and capable students seeking the bachelor in criminal justice to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have both a cumulative and major/program grade point average of 3.5 and must have completed CRJS 110, CRJS 209, CRJS 301, and CRJS 302. Interested students should apply in spring quarter of the junior year or fall quarter of the senior year.

Completion of the major: During senior year, criminal justice honors students will take the criminal justice honors sequence (CRJS 477 for 3 credits in the fall quarter, CRJS 478 for 3 credits in the winter quarter, and CRJS 479 for 4 credits in the spring quarter). Students in the criminal justice honors major complete 10 credits of course work above the norm for criminal justice majors (for a total of 75 credits in criminal justice), and also complete a substantial thesis under the direction of a faculty member. The thesis will be subject to approval by department faculty and will be presented in an oral defense. In order to complete the requirements for criminal justice honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50. In addition, the grade received for CRJS 479 Criminal Justice Honors Thesis Supervision must be an A or A-. In addition to the Bachelor of Criminal justice major requirements, the honors major also includes:

Criminal Justice Honors Requirements

Ten credits in criminal justice honors, including:

CRJS 477	Criminal Justice Honors Directed Reading.....	3
CRJS 478	Criminal Justice Honors Directed Study.....	3
CRJS 479	Criminal Justice Honors Thesis Supervision.....	4

Bachelor of Science

Major in Criminal Justice

In order to earn the bachelor of science degree with a major in criminal justice, students must complete a minimum of 180 quarter credits for the forensic psychology specialization and 192 credits for the forensic science specialization with a cumulative and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 120 or above	(fulfilled in major for forensic psychology specialization) ...	5
Lab Science	(fulfilled in major)	
Fine Arts	(one approved 5 credit course; see course descriptions)	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	(fulfilled in major)	
Social Science II	(not CRJS 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 Core Course	(fulfilled in major)	
Senior Synthesis	(CRJS 487 required)	*3 to 5

NOTE: 1. A course used to satisfy the core senior synthesis may not also apply to the major requirements. 2. Interdisciplinary core courses taken through the criminal justice program will fulfill both the interdisciplinary core requirement and major requirement (either as a specialization requirement or a criminal justice elective depending on the course taken and degree/specialization option). 3. Criminal justice majors are required to take CRJS 487: Senior Synthesis to fulfill the core senior synthesis requirement with the exception of students obtaining a double major or double degree in which case the senior synthesis from the second major/degree will fulfill the core senior synthesis requirement.

*Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill criminal justice major requirements.

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

Specialization Areas

Choose one of the following specializations:

Forensic Psychology Specialization

III. Major Requirements

75 credits in criminal justice and relevant designated disciplines, including:

CRJS 110	Introduction to Criminal Justice	5
CRJS 209	Criminology	5
CRJS 301	Criminal Justice Statistics	5
CRJS 302	Criminal Justice Research Methods	5
CRJS 312	Criminal Law	5
CRJS 360	Forensic Psychology	5
CRJS 401	Criminal Profiling	5
CRJS 430	Criminal Justice Organizations	5
CRJS 450	The Psychopath	5
CRJS 480	Forensic Science	5
PSYC 120	Introduction to Psychology	5
PSYC 315	Abnormal Psychology	5

Choose from the following specialization electives:..... 15

ADST 429	Pharmacology of Alcohol and Other Drugs
ADST 480	Introduction to Alcohol and Drug Addiction (3)
CRJS 200	Deviance and Social Control
CRJS 210	Law, Society and Justice
CRJS 303	Juvenile Justice
CRJS 306	Police and Society
CRJS 308	Behind Bars: The American Prison
CRJS 310	The American Court System
CRJS 315	Criminal Procedure
CRJS 320	Criminal Investigation
CRJS 350	Community Corrections
CRJS 400	Victimology
CRJS 405	Gender, Race and Crime
CRJS 410	The Polygraph
CRJS 420	Working with Offender Populations
CRJS 422	Issues in Contemporary Law Enforcement
CRJS 423	Punishment and Social Theory
CRJS 452	Serial Murder
CRJS 455	ATF Practicum (1)
CRJS 456	Forensics Practicum (3)
CRJS 457	Trial Skills Practicum (3)

CRJS 459	Research Practicum (1 to 10)
CRJS 460	Forensic Anthropology
CRJS 465	Crime Scene and Medico-legal Death Investigation
CRJS 481	Murder Movies and Copycat Crime (3 to 5)
CRJS 495	Internship (1 to 10)
CRJS	Special Topics Courses
PSYC 222	Social Psychology
PSYC 322	Growth and Development
PSYC 350	Theories of Personality
PSYC 440	Cognitive Psychology
SOCL 424	Sociology of Mental Illness
SOCW 402	Mental Illness

IV. Other Major Requirements *30

MATH 120	Precalculus: Algebra (or above) 5
BIOL 161	Biology I: Molecular and Cellular Biology 4
BIOL 171	Biology I Lab 1
BIOL 200	Anatomy and Physiology I 5
BIOL 210	Anatomy and Physiology II 5
Elective	Any math or lab science course 10

*Included in major GPA.

NOTE: 1. With exception of the "other major requirements," a maximum of 30 community college credits may apply to this specialization. 2. Psychology courses not listed may be selected as forensic psychology electives if deemed applicable and approved by the program chair. 3. Students planning to pursue graduate study in forensic psychology should consider a double major, or at minimum, a minor in psychology. No more than 15 credits of psychology courses from this specialization will be counted towards a psychology minor. 4. PSYC 303 and PSYC 305 fulfill CRJS 301 and CRJS 302 for students obtaining a double major or double degree in criminal justice and psychology.

Forensic Science Specialization

III. Major Requirements

105 in criminal justice and relevant designated disciplines, including:

CRJS 110	Introduction to Criminal Justice 5
CRJS 209	Criminology 5
CRJS 301	Criminal Justice Statistics 5
CRJS 302	Criminal Justice Research Methods 5
CRJS 312	Criminal Law 5
CRJS 320	Criminal Investigation 5
CRJS 430	Criminal Justice Organizations 5
CRJS 480	Forensic Science 5
CRJS 485	Forensic Science Lab 3
BIOL 161	Biology I: Molecular and Cellular Biology 4
BIOL 171	Biology I Lab 1

BIOL 200	Anatomy and Physiology I	5
BIOL 210	Anatomy and Physiology II	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	1
CHEM 231	Fundamental Organic Chemistry I	4
CHEM 241	Fundamental Organic Chemistry I Lab	2
CHEM 232	Fundamental Organic Chemistry II	4
CHEM 242	Fundamental Organic Chemistry II Lab	2
CHEM 319	Quantitative Analysis	5

Choose one of the following two courses: 5

PHYS 105 Mechanics (non-calculus survey)

PHYS 121 Mechanics (calculus-based)

Choose from the following specialization electives: 10

ADST 429	Pharmacology of Alcohol and Other Drugs (3)
ADST 480	Introduction to Alcohol and Drug Addiction (3)
CRJS 306	Police and Society
CRJS 310	The American Court System
CRJS 315	Criminal Procedure
CRJS 400	Victimology
CRJS 401	Criminal Profiling
CRJS 410	The Polygraph
CRJS 422	Issues in Contemporary Law Enforcement
CRJS 423	Punishment and Social Theory
CRJS 450	The Psychopath
CRJS 452	Serial Murder
CRJS 455	ATF Practicum (1)
CRJS 456	Forensics Practicum (3)
CRJS 457	Trial Skills Practicum (3)
CRJS 459	Research Practicum (1 to 10)
CRJS 460	Forensic Anthropology
CRJS 465	Crime Scene and Medico-legal Death Investigation
CRJS 481	Murder Movies and Copycat Crime (3 to 5)
CRJS 495	Internship (1 to 10)

IV. Other Major Requirements..... *10

Continuation of series in Physics (PHYS 106-107 or PHYS 122-123) OR Biology (BIOL 161/171, 162/172, 163/173)

*Included in major GPA.

NOTE: 1. With the exception of the "other major requirements", a maximum of 50 community college credits may apply to this specialization. 2. CRJS special topics or physical science courses not listed may be selected as forensic science electives if deemed ap-

plicable and approved by the program chair. 3. The BS major in Criminal Justice with a Forensic Science specialization may require additional preparation in science and math prerequisites. Students should work closely with their advisor to determine preparatory course work needed and to make sure courses are chosen carefully. 4. Students planning to seek employment as a crime lab forensic scientist immediately upon graduation or to pursue a career or graduate study in forensic science are strongly encouraged to: a) complete a double major, or at minimum, a minor in chemistry; b) continue the physics series as the option for "other major requirements"; c) consult the minimum qualifications for employment with the Washington State Patrol Crime Lab and/or comparable agencies, d) apply for/complete a laboratory internship. 5. Students planning to pursue a career in medico-legal death investigation are strongly encouraged to: a) complete a double major, or at minimum, a minor in biology; b) continue the biology series as the option for "other major requirements", c) apply for/complete an internship with the medical examiners office or related agency. 6. PSYC 303 and PSYC 305 fulfill CRJS 301 and CRJS 302 for students obtaining a double major or double degree in criminal justice and psychology. 7. CHEM 335/345, CHEM 336/346, and CHEM 337/347 fulfill CHEM 231/241 and CHEM 232/242 for students obtaining a double major or double degree in criminal justice and chemistry or biochemistry.

Bachelor of Science

Major in Criminal Justice with Departmental Honors

The honors major in criminal justice offers an opportunity for motivated and capable students seeking the bachelor of science major in criminal justice to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have both a cumulative and major/program grade point average of 3.50 and must have completed CRJS 110, CRJS 209, CRJS 301, and CRJS 302. Interested students should apply in spring quarter of the junior year or fall quarter of the senior year.

Completion of the major: During senior year, criminal justice honors students will take the criminal justice honors sequence (CRJS 477 for 3 credits in the fall quarter, CRJS 478 for 3 credits in the winter quarter, and CRJS 479 for 4 credits in the spring quarter). Students in the criminal justice honors major complete 10 credits of course work above the norm for criminal justice majors (for a total of 85 credits in criminal justice for the BS/Forensic Psychology and 115 credits in criminal justice for the BS major in Criminal Justice with a Forensic Science specialization, and also complete a substantial thesis under the direction of a faculty member. The thesis will be subject to approval by department faculty and will be presented in an oral defense. In order to complete the requirements for criminal justice honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50. In addition, the grade received for CRJS 479 Criminal Justice Honors Thesis Supervision must be an A or A-.

In order to earn the bachelor of science major in criminal justice degree with departmental honors, students must complete a minimum of 190 quarter total credits for the forensic psychology specialization and 202 total credits for the forensic science special-

ization with a cumulative and a major/program grade point average of 2. In addition to the Bachelor of Science, major in Criminal Justice requirements, the honors major also includes:

Criminal Justice Honors Requirements

Ten credits in criminal justice honors, including:

CRJS 477	Criminal Justice Honors Directed Reading.....	3
CRJS 478	Criminal Justice Honors Directed Study.....	3
CRJS 479	Criminal Justice Honors Thesis Supervision.....	4

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	Criminology	5
CRJS 210	Law, Society and Justice	5
CRJS	Electives.....	15

See policy for minors (84-1) for more information.

Criminal Justice Courses

CRJS 110	Introduction to Criminal Justice	5
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A survey of criminal justice processes from arrest through release, with attention to the interrelationship between the police, the courts, and corrections. Required for all criminal justice majors.

CRJS 200	Deviance and Social Control	5
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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. Core option: Social Science II. Cross-listed with SOCL 219.

CRJS 209	Criminology	5
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Interdisciplinary study of the theories of crime and criminal behavior and their application to criminal justice policy and practice. Focus on sociological, psychological, biological, cultural, phenomenological, and routine-activity theories. Required for all criminal justice majors. Prerequisite: CRJS 110.

CRJS 210	Law, Society and Justice	5
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Analysis of theories of law and the meaning of justice in Western culture. Focus on theories of justice and their impact on the criminal justice system, the nature and function of law, the relationship between law and morality, and judicial reasoning. Core option: Social Science II.

CRJS 291-293	Special Topics	1 to 5
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CRJS 296	Directed Study	1 to 5
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- CRJS 301 Criminal Justice Statistics..... 5**
Survey of statistical methods used in the criminal justice field. Focus on the scientific method, hypothesis testing, descriptive and inferential statistics. Topics include measures of central tendency, probability theory, confidence intervals, frequency distributions, correlation and regression, sampling procedures and distributions, hypothesis testing, contingency tables, measures of association, and chi square, t-tests, analysis of variance, and interpreting research results. Students will develop a tool box to critically examine the value, validity, and appropriate use and interpretation of statistics in criminal justice. Required for all criminal justice majors. Prerequisites: MATH 110, CRJS 110, CRJS 209.
- CRJS 302 Criminal Justice Research Methods..... 5**
Overview of social science research methods, applied statistical techniques, and statistical software used in criminology and criminal justice. The course is divided into two components: (1) Research design and the research process and (2) Introduction to computer data analysis using SPSS. Focus on the research process including design, literature review, data collection, sampling, data analysis, and presentation. Prerequisites: MATH 110, CRJS 110, CRJS 209. Required for all criminal justice majors. Pre/Co-requisite: CRJS 301.
- 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.
- 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.
- 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 for all criminal justice majors. Prerequisite: CRJS 110.
- CRJS 315 Criminal Procedure..... 5**
Overview of constitutional limitations on the criminal justice system, The Bill of Rights, due process and civil liberties, investigative and trial procedures, and criminal procedure from arrest through postconviction. Focus on the rule of law in law enforcement, search and seizure, and arrest, interrogation, identification. Recommended prerequisites: CRJS 110, CRJS 312.

- CRJS 320 Criminal Investigation 5**
 Study of investigative theory and techniques. Focus on investigation of homicide, rape, and violent crime and procedures and forensic techniques used in crime scene investigations. Prerequisites: CRJS 110, CRJS 209.
- CRJS 350 Community Corrections 5**
 Overview of the theory and practice of community corrections. Examination of contemporary correctional interventions in community settings, alternatives to incarceration and intermediate sanctions, and issues involving the reintegration and community supervision of offenders.
- CRJS 360 Forensic Psychology 5**
 Overview of forensic psychology and the nexus between psychology, law, and criminology. Survey of policy, practice, and research in forensic psychology and application of psychology to the criminal justice system and criminal and civil litigation. Topics include: Criminal behavior, the relationship between the criminal justice and mental health systems, ethical guidelines and challenges faced in forensic work, methods and instruments used by forensic psychologists, investigative psychology and offender profiling, the insanity defense and competency determinations, risk assessment and prediction of dangerousness, sex offender treatment, and correctional interventions. Cross-listed with PSYC 360. Prerequisites: CRJS 110, CRJS 209, PSYC 120.
- CRJS 391-393 Special Topics 1 to 5**
- CRJS 396 Directed Study 1 to 5**
- CRJS 400 Victimology 5**
 A survey of victimology. Topics include: The impact of crime on victims, measuring crime through victimization, the social and psychological harm resulting from different types of crime, the victim-offender relationship, victim rights movement, public perception of victims and social reaction to victimization, the role of the victim in the criminal justice process, and crime prevention and personal safety. A component of the course will address restorative justice with attention to the differences between restorative and retributive models of justice, restorative justice initiatives in the criminal justice system, the balancing of victim, offender, and citizen needs and rights, and offender, community, and governmental responsibilities in meeting the needs of crime victims. Prerequisites: CRJS 110, CRJS 209.
- CRJS 401 Criminal Profiling 5**
 Study of the differentiation of criminal types in criminal justice policy and practice. Focus on theoretical foundations of typology construction and application of offender typologies and criminological theories to the investigative and adjudication process. Recommended Prerequisites: CRJS 110, CRJS 209, CRJS 360.

- CRJS 405 Gender, Race and Crime 5**
Study of gender and race/ethnicity disparities and discriminatory practices in criminal justice with attention to the ways in which gender and race/ethnicity has been historically addressed in criminological theory. Exploration of feminist and cultural perspectives in understanding crime and its response. Comparisons in offending, police contact, case processing, correctional supervision and confinement, capital punishment, and social response and control of criminal behavior. Topics include: Racial profiling, race and gender disparity versus discrimination at different stages of the criminal justice process, female offending, and male violence against women. Cross-listed with SOCL 425.
- CRJS 410 The Polygraph..... 5**
Overview of the use of the polygraph in the criminal justice system. Theory, techniques, application, legal and ethical considerations in the use of the polygraph in the criminal justice system.
- CRJS 420 Working with Offender Populations..... 5**
Overview of theory, research, and practice regarding correctional interventions, correctional counseling, and working with juvenile and adult offender populations. Focus on issues arising in working with offenders including personal safety, offender manipulation, balancing treatment/security/management goals, prison subculture, offender needs and adaptation to correctional environments, and general issues central to working with offenders in correctional and criminal justice settings.
- CRJS 422 Issues in Contemporary Law Enforcement 5**
Seminar on current issues in contemporary law enforcement. Topics addressed in the course include: The politics of law enforcement, police brutality, the impact of administrative interventions on police discretion, and police strategies such as problem-oriented policing, "hot spot" patrols, paramilitary units, and the criminal investigative process.
- CRJS 423 Punishment and Social Theory 5**
Exploration of the major social theories of punishment, historical and contemporary penological practice, and the death penalty and the modern execution process. Focus on society's justification for punishment as a response to crime and the function and meaning of punishment in modern society. Cross-listed with SOCL 334. Prerequisites: CRJS 110, CRJS 209.
- CRJS 430 Criminal Justice Organizations 5**
Organizational analysis of criminal justice agencies. Study of organizational theory as it applies to police, courts, and corrections. Focus on ethics, discretion, and decisionmaking at different stages of the criminal justice process with attention to individual-organizational-sociocultural dynamics. Topics include: Police deviance, the courtroom work group, and private/public correctional subcultures. Required for all criminal justice majors. Prerequisite: CRJS 110, CRJS 209.

- CRJS 450 The Psychopath 5**
 Study of psychopathy and its relevance to crime, violence, and the criminal justice system. Exploration of the origin and dynamics of psychopathy with focus on forensic assessment, prediction of dangerousness, and how scientific and popular conceptions of psychopathy shape criminal justice policy and practice. Recommended Prerequisites: CRJS 110, CRJS 209, CRJS 360, PSYC 120, PSYC 315.
- CRJS 452 Serial Murder 5**
 Introduction to the origins, nature, and dynamics of serial murder. Review of theory and research on the origins and development of serial murder behavior, the conceptual differences between different types of multiple murder phenomena, gender differences in serial homicide, the role of mental disorder, social and cultural forces, and environmental influences on serial murder, investigating serial murder, understanding victimology, and media attention to serial murder.
- CRJS 455 ATF Practicum 1**
 This is a practicum opportunity facilitated by the Bureau of Alcohol, Tobacco, Firearms, & Explosives. Students are provided with an inside look at the roles and responsibilities of ATF special agents and the range of units within the agency. CR/F grading mandatory.
- CRJS 456 Forensics Practicum 3**
 This is a practicum opportunity associated with the School of Law that exposes students to the interaction between the attorney and the expert witness. Students work with/assist third-year law students enrolled in the School of Law forensics course to prepare, research, interview, depose, and engage in cross and direct examination of expert witnesses in civil and criminal cases. CR/F grading mandatory.
- CRJS 457 Trial Skills Practicum..... 3**
 This is a practicum opportunity associated with the School of Law clinic. Students work with law students and faculty to prepare, play a role, and present in a mock trial. CR/F grading mandatory.
- CRJS 459 Research Practicum 1 to 10**
 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. Prerequisites: CRJS 301 and CRJS 302, junior or senior standing, and instructor permission.

- CRJS 460 Forensic Anthropology 5**
 Overview of skeletal biology and its application to medico-legal death investigation. Study of the human skeleton including the individual bones, the major anatomical landmarks, and the range of human variation. Focus on the human skeleton in a medico-legal context including locating covert burials, processing outdoor scenes, determination of biological profile, trauma analysis, cause and manner of death, postmortem interval and methods of positive identification. The course is not designed to make students forensic anthropologists but rather to impart an overall understanding of the discipline and an appreciation for its contributions to forensic science. Cross-listed with ANTH 460. Recommended Prerequisites: BIOL 200, BIOL 210.
- CRJS 465 Crime Scene and Medico-legal Death Investigation 5**
 In-depth look into crime scene and medico-legal death investigation. The manners, mechanisms, causes of death, and post-mortem changes, and wound interpretation are explored. The student will learn how to apply postmortem conditions to criminal investigations to confirm or refute evidence of wrongful deaths. The course will emphasize crime scene search, recognition of physical evidence, techniques and methods for collection, preservation and transmission for laboratory analysis of evidence, and the courtroom presentation of investigators' actions at the crime scene. A component of this course will involve development of/participation in a mock crime scene investigation. Recommended Prerequisites: CRJS 320, CRJS 480.
- CRJS 477 Criminal Justice Honors Directed Reading 3**
- CRJS 478 Criminal Justice Honors Directed Study 3**
- CRJS 479 Criminal Justice Honors Thesis Supervision 3**
- CRJS 480 Forensic Science 3 to 5**
 Study of the application of science to law and the criminal justice system. Overview of disciplines, theories, techniques and practices of which the field of forensic science is comprised. Fulfills Interdisciplinary Core Requirement. Cross-listed with CHEM 480.
- CRJS 481 Murder Movies and Copycat Crime 3 to 5**
 Examination of the relationship between crime, criminal justice, and popular culture with attention to the criminogenic and cathartic effects of film and media depictions of violent crime, specifically murder. Focus on the dynamics of moral panics and copycat crime, the reflexive relationship between media and crime, and the individual-social-cultural effects of violent images and artifacts. Fulfills Interdisciplinary Core Requirement.
- CRJS 482-483 Interdisciplinary Core Course 3 to 5**
 Title and content may change each term.

CRJS 485	Forensic Science Lab.....	3
Application of scientific methods and techniques to problems in the field of forensic science and crime scene investigation. Hands-on introduction to techniques used in the forensic science laboratory. Lab exercises involving a range of forensic science methods, techniques, and specializations including: evidence collection and handling, analysis of hair and fiber, trace evidence, toolmarks, blood stains and spatter patterns, gunshot residue, and other physical evidence, fingerprinting and fingerprint enhancement, footwear comparisons, forensic serology and toxicology, DNA analysis, firearms and questioned document examination. Prerequisites: BIOL 161/171, CHEM 121, PHYS 105 or 121, CRJS-CHEM 480. BCJ and BS forensic science majors only or permission of chair.		
CRJS 487	Senior Synthesis	3 to 5
CRJS 491-493	Special Topics	1 to 5
CRJS 495	Internship	1 to 10
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: junior or senior standing and departmental permission.		
CRJS 496	Independent Study	1 to 5
CRJS 497	Directed Reading.....	1 to 5
CRJS 498	Directed Research.....	1 to 5

Cultural Anthropology

Department of Anthropology, Sociology, and Social Work

Jodi O'Brien, PhD, Chair

Objectives

Anthropology is an integrated and interdisciplinary field. The discipline offers a holistic engagement with the question: What does it mean to be human? Anthropology is ideally suited to a critical understanding of the broad past, present, and the future of human experience, cultural interaction, and the person in society. Anthropology is embedded in an empirically based working theory of cultural diversity. Anthropological perspectives are especially suited to complement studies in fields in which humans are central: pre-medicine, psychology, political science, urban planning, journalism, education, and business.

The major is designed to develop students' abilities and skills in knowledge of the field that will serve as a foundation for further study and/or career goals. A broad understanding of human culture around the world and across time is achieved through four types of classes. The first set of classes provide a foundational knowledge in the theories and methods of anthropology. The second set familiarizes students with a basic unit of study in anthropology, the family and kinship systems. The third set of courses provides detailed coverage of the cultural aspects of ethnicity. The fourth area provides in-depth coverage of cultural systems of knowledge and belief. In addition, students will take electives that enable them to achieve a breadth of information in areas such as medical anthropology, gender and sexuality, language, business and politics.

Degree Offered

Bachelor of Arts

Majors Offered

Cultural Anthropology

Cultural Anthropology with Departmental Honors

Minor Offered

Cultural Anthropology

Requirements

In order to earn a bachelor of arts degree with a major in anthropology, students must complete a minimum of 180 quarter credits with a cumulative and a program/major grade point average of 2.00 that includes the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5

ENGL 120	Introduction to Literature.....	5
MATH 107 or 110 or above		5
Lab Science		5
Fine Arts (one approved 5 credit course; see course descriptions).....		5
PHIL 220	Philosophy of the Human Person.....	5
Social Science I (not Anthropology)		5
Social Science II (not Anthropology and a different discipline from Social Science I)		*5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division).....		5
Theology and Religious Studies III (300-399).....		5
Interdisciplinary Course		3 to 5
Senior Synthesis (ANTH 490 required in major).....		5

*Economics 271 is the recommended Social Science II course for Anthropology majors.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency in the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill 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

55 credits in the following areas, including:

Area I: Foundations of Anthropology

(all courses in this area are required)

ANTH 301	Principles of Cultural Anthropology	5
ANTH 302	Ethnographic Methods	5
ANTH 303	Social Linguistics	5
ANTH 402	History of Anthropological Thought	5
ANTH 490	Senior Synthesis.....	5

Area II: Family and Kinship

Choose one of the following four courses:..... 5

ANTH 323 Culture and Personality

ANTH 324 Family and Kinship

ANTH 325	Asian Households and Families
ANTH 482	Culture and Reproduction

Area III: Culture and Ethnicity

Choose one of the following 5

ANTH 341	Contemporary Chinese Society
ANTH 342	Contemporary Japanese Society
ANTH 438	People of the Pacific Northwest
PUBA 480	Asian American Experience: Culture, History and Community

Area IV: Religion and Politics

Choose one of the following 5

ANTH 330	Anthropology of Religion
ANTH 333	Anthropology of Law
ANTH 335	Culture and Mental Illness
ANTH 336	Culture and Healing
ANTH 440	Shamanism

Area V: Major Electives 15

Option I

15 credits required in anthropology and other subjects. One course must be taken from option I and the other courses can be from option I or II.

AIST 200	Introduction to Asian Studies
ANTH 337	Culture and the Body
ANTH/CRJS 460	Forensic Anthropology
ANTH 481	Anthropology of Gender and Sport
SOCL 219	Deviance and Social Control
SOCL 303	Sociology of Community
SOCL 316	Class and Inequality
SOCL 317	Race and Ethnicity
SOCL 318	Gender Roles and Sexuality
SOCW 300	Human Behavior in the Social Environment
THRS 334	Asian Religions
WMST 388	Emerging Subjectivities in Chican@ Literature
WMST 393	Women, Ethnicity and Culture

ANTH and SOCL Special Topics Courses

Option II

CMJR 385	Cross-Cultural Communication
CRJS 405	Gender, Race and Crime
CRJS 423	Punishment and Social Theory
ECON 370	American Economic History
ECON 376	Economic Development
ECON 461	Economics of Gender and Family
ENGL 361	Literature of India

ENGL 362	African Literature
ENGL 391	Asian American Literature
ENGL 391	Contemporary South Asian Literature and Culture
ENGL 480	African American Literature
HIST 371	Modern Latin American
HIST 383	Modern China
HIST 387	Modern Japan
FREN 315	French Culture and Civilization**
FREN 452	Development of Modern French**
GERM 315	German Culture and Civilization**
SPAN 315	Latin American and Spanish Culture and Society**
PSYC 230	Psychology of Religion
SOCW 410	Practice II: Social Work with Groups

**These courses require language comprehension.

NOTE: Several courses in the cultural anthropology major 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.

Bachelor of Arts Major in Cultural Anthropology with Departmental Honors

The honors major in cultural anthropology offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have both a cumulative and major/program grade point average of 3.50 and must have completed ANTH 301, ANTH 302, and ANTH 401. Interested students should apply in spring quarter of the junior year or fall quarter of the senior year.

Completion of the major: During senior year, cultural anthropology honors students will take the cultural anthropology honors sequence (ANTH 477 for 3 credits in the fall quarter, ANTH 478 for 3 credits in the winter quarter, and ANTH 479 for 4 credits in the spring quarter). Students in the cultural anthropology honors major complete 10 credits of course work above the norm for cultural anthropology majors (for a total of 65 credits in cultural anthropology), and also complete a substantial thesis under the direction of a faculty member. The thesis will be subject to approval by department faculty and will be presented in an oral defense. In order to complete the requirements for cultural anthropology honors, students must also maintain a cumulative and major/program grade point average of 3.50. In addition, the grade received for ANTH 479 cultural anthropology Honors Thesis Supervision must be an A or A-. In addition to the cultural anthropology major requirements, the honors major also includes the following:

Cultural Anthropology Honors Requirements

10 credits in Cultural Anthropology honors, including:

ANTH 477	Cultural Anthropology Honors Directed Reading	3
ANTH 478	Cultural Anthropology Honors Directed Study	3
ANTH 479	Cultural Anthropology Honors Thesis Supervision.....	4

Minor in Cultural Anthropology

In order to earn a minor in cultural anthropology, students must complete 30 credits of approved anthropology courses including:

ANTH 301	Principles of Cultural Anthropology	5
ANTH 302	Ethnographic Methodologies	5
ANTH 402	History of Anthropological Thought	5
Anthropology Electives		15

See policy for minors (84-1) for more information.

Anthropology Courses**ANTH 120 Anthropological Perspectives..... 5**

What does it mean to be human? This course introduces students to anthropological perspectives for studying human behavior and culture. The holistic approach includes the four interconnected fields of anthropology: biological/physical anthropology, cultural anthropology, linguistic anthropology and archaeology. The four fields ask and answer questions about our prehistory, our variation, our primate cousins, and our societies and cultures—past and present. Core option: Social Science I.

ANTH 230 Cultural Analysis..... 5

This course will introduce students to the discipline of cultural anthropology and explore how this approach is used to analyze cultural organization. Specific cultural focus will vary with faculty expertise and may include one or more of the following: Asia, Pacific Islands, Native Americans, and contemporary subcultures within the U.S. Core option: Social Science II.

ANTH 296 Directed Study..... 1 to 5**ANTH 301 Principles of Cultural Anthropology..... 5**

This course is intended for majors and minors. Introduction to the five subfields of cultural anthropology: cultural ecology, social anthropology, economic anthropology, political anthropology, and the anthropology of religion. Includes a comparative examination of ancient and contemporary cultures; the means of methods of evaluations of the effects of modernization on traditional cultures; ethnicity, gender and the role of diversity in a global context; and consideration of the implications and ethics of anthropological research for the cultures that are studied.

- ANTH 302 Ethnographic Methodologies 5**
 This course focuses on field research with human subjects and its centrality to cultural anthropology. Additionally, there is a review of how cultural anthropologists conduct their studies and gather data. Students will read ethnographies, view films, and have opportunities to practice the ethnographic method through short skill-building exercises.
- ANTH 303 Social Linguistics 5**
 Linguistics is the study of the structure of language and its relationship to culture. In this course, students will be introduced to fundamental concepts in the field of linguistics, examine cross-cultural differences in the structure of language and explore the role of language in shaping cultural, behavior and thought.
- ANTH 323 Culture and Personality 5**
 Psychological anthropology is a subfield of cultural anthropology that studies personality and the connection between personality and the sociocultural environment. Four key issues are (1) culture, (2) human nature, (3) personality, and (4) the interrelationship of culture, human nature and personality. Compares and contrasts ethnographic studies of a variety of societies and cultures, examining unconscious processes of cultural behavior in particular cultures, drawing upon the sciences of psychology and psychoanalysis in order to understand patterns of behavior. Examines the dynamics of human behavior through biological as well as sociocultural dimensions. Includes elements of primate social behavior and human evolution.
- ANTH 324 Family and Kinship..... 5**
 Analysis of family and kinship as primary forms of social organization and social connection. Consideration of the evolution of family structures in relation to larger societal changes. Study will also include a focus on contemporary family types and the connection between kinship systems and economics, law and politics. Cross-listed with SOCL 324.
- ANTH 325 Asian Households and Families 5**
 Families and households are at the foundation of all societies and cultures. This course focuses on families and households in Japan and the People's Republic of China as well as the families and households of Asians who have immigrated to the United States. Course work includes site visits and a life history interview of an Asian elder.
- ANTH 330 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. Cross-listed with SOCL 330.
- ANTH 333 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. Cross-listed with SOCL 333.

- ANTH 335 Culture and Mental Illness** 5
A comparison of the definition and treatment of "madness" across cultures. Emphasis on distinct social institutions associated with treatment and the legitimating features of the institutions. Also covers various theoretical perspectives on mental illness. In depth examination of the medicalization of deviance and its different applications with regard to class, gender and race. Cross-listed with SOCL 335.
- ANTH 336 Culture and Healing**..... 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 prospects of globalization. Cross-listed with SOCL 336.
- ANTH 337 Culture and the Body**..... 5
This course examines the ways in which diverse cultures represent, customize, and conceptualize the physical and social body. The question that we must ask, and try to answer, is what does the body tell us about culture? We will compare the different ways in which cultures construct the "naturalness" of the body through "normality" and "abnormality", power, healing, and suffering.
- ANTH 341 Contemporary Chinese Society** 5
This is a non-specialized introduction to modern Chinese society and culture from the disciplinary perspective of cultural anthropology. Focusing upon the People's Republic of China, we will pay particular attention to the social institutions and practices that give meaning to modern Chinese culture and daily life. These include the Chinese family, educational practices, employment and interpersonal relations.
- ANTH 342 Contemporary Japanese Society** 5
This course is a non-specialized introduction to the ways that people in Japan live today. We will examine and discuss modern Japanese society by focusing upon the major social institutions and practices that both (re)produce and compose the lives and worlds of Japan's citizens. This will include a close examination of Japanese families, educational environments, workplaces and communities.
- ANTH 391-393 Special Topics** 1 to 5
- ANTH 396 Directed Study**..... 1 to 5
- ANTH 402 History of Anthropological Thought** 5
Critical survey of classical and contemporary theories in the field of anthropology. Considerations will include issues raised in recent years regarding interpretive methodologies; reflexivity; feminist anthropologies; and critical ethnic studies.

- ANTH 438 People of the Pacific Northwest 5**
 Focus on the indigenous groups of the region known as the Columbia Plateau using historical-anthropological methodology, survey culture distribution, including archaeological, linguistic and biological factors. Contemporary issues of sovereignty, justice and socio-cultural configurations. Particular emphasis on the cultural-ecology of the Yakima people, the history of contact and role of religion as a form of resistance, and the anthropological process of the contemporary Coeur d'Alene people. Addresses issues of justice and social responsibility, as well as the processes of the political-economic systems that affect people today.
- ANTH 440 Shamanism 5**
 Aspects of Shamanism and traditional medicine of interest to the generalist as well as the student of anthropology. Themes include: a) Shamanic traditions in many contemporary societies and cultures, b) the relationship between these and the "New Age" or "Neo-Shamanic" variants which have been gaining popularity in the U.S. and Western Europe since the early 1970s and c) the relationship between these healing traditions and bio-medical and psychotherapeutic paradigms.
- ANTH 460 Forensic Anthropology 5**
 Overview of skeletal biology and its application to medico-legal death investigation. Study of the human skeleton including the individual bones, the major anatomical landmarks, and the range of human variation. Focus on the human skeleton in a medico-legal context including locating covert burials, processing outdoor scenes, determination of biological profile, trauma analysis, cause and manner of death, postmortem interval and methods of positive identification. The course is not designed to make students forensic anthropologists but rather to impart an overall understanding of the discipline and an appreciation for its contributions to forensic science. Cross-listed with CRJS 460. Recommended Prerequisites: BIOL 200, BIOL 210.
- ANTH 470 Field Work Experience 1 to 5**
- ANTH 477 Honors Directed Reading 3**
- ANTH 478 Honors Directed Study 3**
- ANTH 479 Honors Thesis Supervision 4**
- ANTH 480 Interdisciplinary Core Course 3 to 5**
 Title and content vary.
- ANTH 481 Anthropology of Gender and Sport 5**
 This course explores the relationships among culture, gender, and sport through an examination of historical and contemporary sources. Satisfies core interdisciplinary requirement.

ANTH 482 Culture and Reproduction 5

This course examines the ways in which diverse cultures represent, customize, conceptualize and organize biological reproduction. How is reproductive activity related to other cultural institutions such as the family, religion and law? Which forms of reproductive activity are culturally sanctioned and which forms are punished? What is the relationship between reproduction and other legitimating cultural activities? The course also explores variations on the concept of "reproduction" at the macro level and with regard to cultural change and development. Satisfies core interdisciplinary requirement.

ANTH 490 Senior Synthesis 5**ANTH 491-493 Special Topics 1 to 5****ANTH 494 Area Specialization 1 to 5****ANTH 496 Independent Study 1 to 5****ANTH 497 Directed Reading 1 to 5****ANTH 498 Directed Research 1 to 5**

English

Edwin Weihe, PhD, Chair

Objectives

Through a wide range of course offerings the Department of English seeks to develop each student's capacity for reading — the intense, concerned involvement with textual expression. The interpretation of texts in all their formal, cultural, and historical complexity requires the integration of many kinds of knowledge and the development of a wide variety of critical reading, thinking, and writing skills. Responding with texts of one's own requires skills of invention, arrangement, control of tone, and mastery of style.

The department offers two majors, in literature and in creative writing, that share a foundation of reading skills development and a knowledge of British and American literary history. Upper-division literature courses develop, at two levels, research and writing skills and an applied knowledge of literary theory that are essential to successful scholarly work. The department also offers, for majors and non-majors, a growing number of creative, expository, research, scientific, and both workplace and career-oriented professional writing courses.

Beyond the classroom, students have opportunities to undertake departmental honors, contribute to the literary journal, participate in the Literary Society, engage professional scholars and creative writers in our Scholars Series and Writers Reading Series, and study abroad.

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

Degree Offered

Bachelor of Arts

Majors Offered

English

English/Creative Writing

English with Departmental Honors

English/Creative Writing with Departmental Honors

Minors Offered

English

English/Creative Writing

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

Policy for University Honors Students

Graduates of the University Honors Program who have completed all five of the literature courses in that program may earn an English major by completing successfully 35 additional credit hours in English at the 300-400 level, five of which must be in American Literature. They may earn an English minor by completing at least 10 credits in English at the 300-400 level.

Graduates of the University Honors Program who have completed all five of the literature courses in that program may earn an English/Creative Writing major by taking 20 credits of creative writing, and 15 credits of literature courses at the 300-400 level. They may earn an English/Creative Writing minor by completing 15 credit hours of creative writing courses at the 300-400 level.

Graduates of the University Honors Program who have completed all five of the literature courses in that program may earn an English major with departmental honors by completing 45 additional credits for courses at the 300-400 level, which must include at least one five credit course in American Literature as well as ENGL 477 and 479. These additional credits may include ENGL 480-83 and 487 in the Core Curriculum.

Graduates of the University Honors Program who have completed all five of the literature courses in that program may earn an English/Creative Writing major with departmental honors by completing 45 additional credits for courses at the 300-400 level. ENGL 477 and 479, 20 credits of creative writing courses, and 25 credits of literature courses are required. These additional credits may include ENGL 480-83 and 487 in the Core Curriculum.

Secondary Endorsement for Teaching English

According to the Washington Code, secondary education teachers must meet minimum standards in a subject area in order to acquire an endorsement to teach in that subject area. Check with an education advisor for current requirements.

The Writing Center

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

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 and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
ENGL 120	Introduction to Literature	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
Fine Arts (one approved 5 credit course; see course descriptions).....		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 to 5

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern 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

55 credits in English, beginning with:

ENGL 252	Readings in British Literature I	5
ENGL 253	Readings in British Literature II	5
ENGL 254	Readings in American Literature	5

Then choose one 300-400 level course from each of five required areas, below. At least one of these 300-level courses must include 300, 301, 302, or 303. In addition, among the five required area courses and three elective courses, at least one must be at the 400 level.

Pre-modern Literature, to 1500.....	5
Early Modern Literature, 1500-1800	5
British & European Literature, 1800-Present.....	5
American Literature.....	5
U.S. Ethnic & Non-Western Literature.....	5
English Electives (300-400 level).....	15

NOTE: 1. See course codes listed below for courses that satisfy the five area 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

The creative writing 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, popular genre writing, and script writing. All writing courses include a substantial reading requirement, but with emphasis on craft. The faculty includes regular members of the English Department as well as writers-in-residence from the Northwest. A student interested in the major or minor in English/Creative Writing should speak with the director.

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 and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
ENGL 120	Introduction to Literature	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
Fine Arts (one approved 5 credit course; see course descriptions)	.....	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 to 5

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details

on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill creative writing 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

55 credits in English, including:

ENGL 252 Readings in British Literature I 5

ENGL 253 Readings in British Literature II 5

ENGL 254 Readings in American Literature 5

Then choose a 300-400 level course from three of the following five area requirements. At least one of these 300-level courses must include 300, 301, 302, or 303. In addition, among the three required area courses and one elective course, at least one course must be at the 400 level.

Required areas: 15

Pre-modern Literature, to 1500

Early Modern Literature, 1500-1800

British & European Literature, 1800-Present

American Literature

U.S. Ethnic & Non-Western Literature

English Electives (300-400 level) 5

Choose creative writing courses in at least three genres (300-400 level) 20

Fiction (ENGL 305, ENGL 409)

Poetry (ENGL 316, ENGL 406)

Non-fiction (ENGL 304, ENGL 414)

Drama/Film (ENGL 351, DRMA 404)

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

Bachelor of Arts

Major in English or English/Creative Writing with Departmental Honors

The English departmental honors major offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging individual research or creative writing projects that will further their personal and professional goals. These majors are supervised by the honors project coordinator. Individual projects are mentored by a faculty member whose expertise guides the students through the project.

Application to the Major: To be accepted in the program, students must have an overall GPA of 3.50 and a GPA in the major of 3.70 by the end of winter quarter of the junior year. Interested students should apply to the department Honors Project Coordinator in spring quarter of the junior year or fall quarter of the senior year. A Change of Program form must be submitted to the Office of the Registrar.

Completion of the Major: During senior year, departmental honors students will complete 10 credits of independent study under the supervision of their faculty mentor. These 10 credits must be taken as ENGL 477 Departmental Honors Directed Reading and ENGL 479 Departmental Honors Thesis Supervision. From these courses during the senior year, students will complete an honors project consisting of a major research paper or long creative text. Students who commit themselves to the honors project must complete their project (with a grade of at least A-minus) one month prior to the end of their final quarter at Seattle University and present the project orally in an appropriate context to be determined by the honors project coordinator. Students who complete departmental honors must earn 65 credits in English courses (10 more than the usual major requirement and earn a cumulative and major/program grade point average of 3.50), which may include English 480-483 and 487 in the core curriculum.

Minor in English

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

ENGL 110	College Writing: Inquiry and Argument	5
ENGL 120	Introduction to Literature.....	5
Choose two of the following three courses.....		10
ENGL 252	Readings in British Literature I	
ENGL 253	Readings in British Literature II	
ENGL 254	Readings in American Literature	
ENGL Electives (300-400 level).....		15

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	College Writing: Inquiry and Argument	5
ENGL 120	Introduction to Literature.....	5
Choose two of the following three courses.....		10
ENGL 252	Readings in British Literature I	
ENGL 253	Readings in British Literature II	
ENGL 254	Readings in American Literature	
Creative Writing electives in at least two genres (300-400-level).....		15

See minor policy (84-1) for more information.

Recommended Course of Study for Majors in English and Creative Writing

Freshman Year:	ENGL 110 and 120, PHIL 110, HIST 120, Math, Lab Science, Modern Language 115,125,135.
Sophomore Year:	ENGL 252, 253, 254, Fine Arts Option, HIST 121/231, Social Science I, Social Science II, PHIL 220, THRS Phase II (200-299).
Junior Year:	ENGL 300-level (including 300, 301, 302, or 303) and 400-level courses, THRS Phase III (300-399), Core Ethics.
Senior Year:	ENGL 300-400 level courses, Core Interdisciplinary, Senior Synthesis.

University Core Courses

ENGL 110	College Writing: Inquiry and Argument
ENGL 120	Introduction to Literature
ENGL 480-3	Interdisciplinary
ENGL 487	Senior Synthesis

Writing And Research Skills

These courses help students from all majors hone their writing skills and develop mature habits of drafting and revision in preparation for upper-division writing assignments in the core or the major. Prerequisites for 200-level writing courses are English 110 or equivalent transfer credit. 300-level writing courses are designed for writers in any discipline who wish to learn advanced strategies for producing effective prose in a variety of academic, civic, or professional contexts. Prerequisites are English 110 or equivalent transfer credit, plus junior standing or permission of instructor

ENGL 101	Basic Writing
ENGL 210	Intermediate College Writing
ENGL 211	Writing the Research Paper
ENGL 212	Scientific/Technical Writing
ENGL 213	Grammar and Editing
ENGL 214	Academic Writing Seminar
ENGL 308	Advanced Writing: Argument and Persuasion
ENGL 309	Composition Theory and Practice for Teachers
ENGL 311	Introduction to Professional Writing
ENGL 312	Topics in Professional Writing
ENGL 390	Tutoring Writing: Theory and Practice

Creative Writing

These courses focus on the craft of imaginative writing in four genres (fiction, non-fiction, poetry, scripts) and are available to all students, though priority may be given to English and Creative Writing majors. ENGL 406 and 409 require prerequisites or permission of instructor.

ENGL 304	Writing Non-Fiction
ENGL 305	Writing Fiction
ENGL 310	Writers Workshop Abroad
ENGL 316	Writing Poetry
ENGL 351	Writing Scripts
DRMA 404	Playwriting
ENGL 406	Advanced Poetry Writing
ENGL 409	Advanced Fiction Writing
ENGL 414	Advanced Non-Fiction Writing

Literature (200-level)

200-level Readings Courses are foundational to the advanced study of literature and creative writing. Students will learn to identify different literary genres and conventions, and to develop close reading skills while developing a coherent sense of the sweep of English and American literary history.

ENGL 252	Readings in British Literature I
ENGL 253	Readings in British Literature II
ENGL 254	Readings in American Literature
ENGL 291-293	Special Topics
ENGL 296	Directed Study

Literature (300-level)

300-level courses build on the skills of close reading developed in 200-level courses, extend students' repertoire of interpretive strategies, and teach sound habits of scholarship needed for success in 400-level courses. 300-level courses offer a wide range of approaches to literature. Instructors' teaching strategies and course assignments aim to help students read with sophistication, develop theoretical awareness, and understand disciplinary methods of inquiry and analysis. 300-level courses are designed for both majors and non-majors. English Majors are advised to complete 300, 301, 302, or 303 before taking a 400-level literature course.

ENGL 300	Literature to 1500 in Context
ENGL 301	Literature 1500-1800 in Context
ENGL 302	Literature 1800 to Present in Context
ENGL 303	American Literature in Context
ENGL 317	Mythology
ENGL 319	Children's Literature
ENGL 320	The Bible as Literature
ENGL 323	The Literature of Greece and Rome
ENGL 326	Dante's Divine Comedy
ENGL 327	Arthurian Romance
ENGL 328	Chaucer
ENGL 329	Renaissance Heroism
ENGL 330	Shakespeare

ENGL 331	Shakespeare in Performance
ENGL 334	Renaissance Drama
ENGL 335	17th Century Literature
ENGL 336	The Renaissance Lyric
ENGL 338	Restoration and 18th Century Literature
ENGL 340	British Romanticism
ENGL 349	Late 19th Century Literature
ENGL 350	Clash of Ideals: The Issue of Progress in 19th Century Literature
ENGL 352	Nineteenth Century European Novel
ENGL 353	Modern Drama
ENGL 358	Modernism in Art and Literature
ENGL 359	Russian Literature
ENGL 361	Literature of India
ENGL 362	African Literature
ENGL 369	Latin American Literature
ENGL 373	Canadian Literature
ENGL 374	American Renaissance, 1820-1860
ENGL 375	American Novelists
ENGL 378	American Drama
ENGL 380	Fiction of the American South
ENGL 381	What is Ethnic American Literature?
ENGL 382	Modern African American Literature
ENGL 383	20th Century American Literature
ENGL 388	The Art of Film
ENGL 391-393	Special Topics
ENGL 396	Directed Study

Literature (400-level)

Courses with a 400 number are advanced studies in literature and writing that build on the research writing skills developed in 300-level courses. 400-level courses have three goals: first, to help students gain a depth of understanding of a focused series of texts, e.g. on a major theme, by one or two authors, or in a particular genre; second, to help students gain an understanding of various theories and methods of literary criticism, as well as learn to apply them to the central texts of the course; and third, to assist students in the writing of a major scholarly paper or creative portfolio. The literary paper will demonstrate close reading, the raising of a literary question in relation to debates among the critics, and the pursuit of an extended and persuasive literary argument.

ENGL 400	History of the English Language
ENGL 415	Donne and His Critics
ENGL 416	Milton Seminar
ENGL 417	Female Gothic
ENGL 423	Irish Literature
ENGL 425	Americans in Paris
ENGL 426	Early American Literature

ENGL 427	African American Slave Narratives
ENGL 429	Slavery and Labor in American Film and Literature
ENGL 430	Japanese Drama
ENGL 431	Asian American Literature
ENGL 439	Medieval Women and Writing
ENGL 441	International Women's Writing
ENGL 443	The History of Narrative from Homer to Hypertext
ENGL 446	Contemporary American Fiction
ENGL 447	Virginia Woolf and Feminism
ENGL 474	Postcolonial Literature and Theory
ENGL 476	Modernism/Postmodernism
ENGL 478	Major Author Seminar
ENGL 485	Literary Theory
ENGL 491-493	Special Topics
ENGL 495	Internships
ENGL 496	Independent Study
ENGL 497	Directed Reading
ENGL 498	Directed Research

Departmental Honors

ENGL 477	Departmental Honors Directed Reading
ENGL 479	Departmental Honors Thesis Supervision

English Courses

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

A	American
BE	British & European Literature, 1800-Present
Co	Core
CW	Creative Writing
EM	Early Modern, 1500-1800
NW	U.S. Ethnic/Non-Western
PM	Pre-Modern Literature to 1500

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, as well as controlling sentence structure, punctuation, and standard usage. Through focus on the writing process, the course aims to increase students' self-confidence as writers. Credits count toward graduation, but do not satisfy core writing requirements.

- ENGL 110 College Writing: Inquiry and Argument..... 5**
 Develops students' skills in academic and public discourse. Students write for various audiences and purposes with an emphasis on argument. The course, taught in an active discussion format, focuses on close reading of challenging texts, question-posing, critical thinking, exploratory writing, and the production of formal essays that evolve through multiple drafts. Topics for investigation vary by section. Co.
- ENGL 120 Introduction to Literature 5**
 Engagement with significant works of literature from diverse cultures that express key themes of the human condition. Students will learn imaginative and critical methods of understanding and responding to a range of literary genres, such as narrative, drama, poetry, and film. Each section will vary in themes and texts, taken from classical to contemporary writing in English. Co.
- ENGL 210 Intermediate College Writing..... 3**
 Teaches skills of invention, arrangement, and style for producing short, clear academic papers. Emphasis on revision helps students learn strategies for generating ideas, organizing a paper effectively, improving style, and producing clear, persuasive writing. Aimed particularly at students who want to gain greater confidence in their writing.
- ENGL 211 Writing the Research Paper..... 3**
 Teaches skills of inquiry, analysis, and argument for research writing in upper-division courses. Students learn to do efficient library and Internet research, evaluate sources critically, and incorporate sources into their own arguments to produce insightful, professionally documented academic papers.
- ENGL 212 Scientific/Technical Writing 3**
 Teaches academic writing within the disciplinary contexts of the physical and social sciences, engineering, nursing, and other scientific or technical fields. Students learn to write an empirical research report and to complete short assignments requiring concise, clear writing on technical or scientific subjects.
- ENGL 213 Grammar and Editing 2**
 Teaches skills of grammatical analysis for eliminating errors in punctuation, usage, and sentence structure. Students learn to understand and apply the rules of Standard American Edited English to their own prose to improve correctness, gracefulness, and style.
- ENGL 214 Academic Writing Seminar 2**
 Teaches students to produce well organized academic writing using effective evidence from a variety of sources to support a thesis-governed argument. Course pedagogy emphasizes writing processes, peer review, and use of Writing Center tutorials. Scheduled in the second half of the quarter, with restricted enrollment.
- ENGL 252 Readings in British Literature I..... 5**
 A close study of several British texts selected from the Medieval Period to the Eighteenth Century. Required of English majors. Prerequisite: ENGL 110, 120.
- ENGL 253 Readings in British Literature II..... 5**
 A close study of several British texts selected from the Eighteenth Century to the Modern Period. Required of English majors. Prerequisite: ENGL 110, 120.

ENGL 254 Readings in American Literature 5

A close study of several American texts selected from the Colonial through the Modern Period. Required of English majors. Prerequisite: ENGL 110, 120.

ENGL 291-293 Special Topics 1 to 5**ENGL 296 Directed Study 1 to 5****ENGL 300 Literature to 1500 in Context 5****ENGL 301 Literature 1500-1800 in Context 5****ENGL 302 Literature 1800-Present in Context 5****ENGL 303 American Literature in Context 5**

An "in context" course satisfies the requirement in that literary area. At the same time, it prepares students for other 300-level literature courses and for the advanced work required in 400-level literature courses. Students will learn (1) how to analyze literary texts within their cultural and historical context; (2) how to negotiate different theoretical perspectives, understanding how different interpretations of a literary text are shaped by the critic's critical assumptions and reading practices; and (3) how to write an insightful 8-12 page researched critical argument about a literary work using the conventions of the Modern Language Association. English majors are advised to complete an "in Context" course before taking a 400-level literature course. ENGL 300 PM, 301 EM, 302 BE, 303 A.

ENGL 304 Writing Non-Fiction 5

Introduction to non-fiction genres which use fictional techniques, such as the personal essay, biography, and autobiography. Prerequisite: ENGL 110, 120. CW.

ENGL 305 Writing Fiction 5

Students will learn the theories, techniques, and discipline of writing short stories, by drawing upon their imaginations to create believable characters and to represent life. CW.

ENGL 308 Advanced Writing: Argument and Persuasion 5

Argumentative writing for a public forum on issues of policy or other significant social 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 and reason. Development of a flexible prose style that can be adapted to a variety of rhetorical situations and audiences.

ENGL 309 Composition Theory and Practice for Teachers 5

Provides future teachers of elementary through secondary school with a foundation in composition theory and writing across the curriculum pedagogy.

- ENGL 310 Writers' Workshop Abroad** 5
Open to any student who is serious about imaginative writing both as self-expression and as a rigorous means for discovering a place, its people, and its history. Phase I, which provides an introduction to the culture of the country to be visited, is conducted on campus spring quarter. The two-week Phase II unfolds abroad in summer. For English/Creative Writing majors and minors, the course satisfies any "genre" requirement. By permission of instructor. CW.
- ENGL 311 Introduction to Professional Writing** 3
Provides an overview of professional writing in both theoretical and practical contexts. Teaches practical skills for writing memos, e-mails, proposals, reports, and other workplace documents with an emphasis on rhetoric, audience adaptation, ethics, and information design.
- ENGL 312 Topics in Professional Writing** 3
Focuses on specific topics or genres within professional writing such as proposal writing, technical writing, writing for the web, or document design.
- ENGL 316 Writing Poetry** 5
Study and practice in the modes and techniques of poetic composition. CW.
- ENGL 317 Mythology** 5
The study of the significance and meaning of myths of ancient Greece and other cultures. The influence and archetypal implications of myths will be examined in their original cultural context.
- ENGL 319 Children's Literature** 5
The study of traditional and contemporary folk and fairy tales, as well as other 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*. PM.
- ENGL 323 The Literature of Greece and Rome** 5
A study of the literature of the classical world of Greece and Rome. Texts may include such works as *The Odyssey*, *The Oresteia*, *Oedipus Rex*, *Antigone*, *The Trojan Women*, and *Lysistrata*, *The Aeneid*, a comedy of Plautus, the essays of Cicero, and the satires of Juvenal for the Romans. PM.
- ENGL 326 Dante's Divine Comedy** 5
A study of *The Divine Comedy: Inferno*, *Purgatorio*, and *Paradiso*, with emphasis on its peculiarly medieval synthesis of thought and its contemporary appeal as a literary classic. PM.

- ENGL 327 Arthurian Romance..... 5**
 A study of British and continental Arthurian works written in the Middle Ages. Two to three weeks will also be devoted to later interpretations of the Arthurian story. Readings may include *Sir Gawain and the Green Knight*, Thomas Malory's *Morte d'Arthur*, Chrétien de Troyes' romances, or Gottfried von Strassburg's *Tristan*. Later works influenced by medieval romance may include Alfred Lord Tennyson's *Idylls of the King*, or Marion Zimmer Bradley's *The Mists of Avalon*. PM.
- 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 understanding and appreciating Chaucer's works in the context of 14th century English culture, history and politics. PM.
- ENGL 329 Renaissance Heroism: Marlowe,
 Shakespeare, and Milton 5**
 An examination of conflicting visions of heroism in Marlowe, Shakespeare, and Milton in light of the political, cultural, and social history of 16th and 17th century England. Students will examine selected plays of Marlowe and Shakespeare, as well as Milton's *Paradise Lost*, from the perspective of new historicism and other critical theories. EM
- ENGL 330 Shakespeare 5**
 A study of Shakespeare's works with attention to dramaturgy, language, and themes, as well as to the political, religious, and cultural contexts of Shakespeare's time. Focusing on close reading of selected plays, the course examines such interpretive controversies as concepts of self, sexuality, family, power, and cosmic meaning. The course may also include selected sonnets or narrative poems. EM.
- ENGL 331 Shakespeare in Performance 5**
 A study of Shakespeare's plays through live theater and video performances, to discover the problems and opportunities of each script as well as those aspects of the plays that reveal themselves only in performance. EM.
- ENGL 334 Renaissance Drama 5**
 A study of Renaissance playwrights, excluding Shakespeare, who contributed significantly to the development of English theater. The course may emphasize a subgenre (such as tragedy or comedy), time period (such as the reign of Queen Elizabeth), or theme (such as "Rewritings of Shakespeare"). EM.
- ENGL 335 17th Century Literature:
 The Rhetoric and Poetics of Modern Revolutions 5**
 A study of the literature of a turbulent period marked by cultural shifts in English politics, economics, and education that affected the development of English literature in many ways. Donne, Herbert, Jonson, Herrick, Crashaw, Milton, and other poets expanded English poetry in form and subject; Dryden, Congreve, Davenant, and other playwrights experimented with new dramatic forms, such as heroic drama, comedy of manners, and opera; and writers such as Bacon, Walton, Dryden and Sprat helped to establish the "rules" for modern English prose. EM.

- ENGL 336 The Renaissance Lyric..... 5**
 A study of the turbulent period from the 1530s to the 1660s when poets freely explored new poetic modes and experimented with old ones. This course traces the development of the English Renaissance lyric by examining the works of such poets as Wyatt, Sidney, Shakespeare, Donne, Wroth, Jonson, Herbert, and Vaughan. EM.
- ENGL 338 Restoration and 18th Century Literature 5**
 A study of the literature of the Restoration and eighteenth century (1660-1800), focusing on such issues as oppression, gender, and race, and on major innovations in prose narratives, satires, and poetry. EM.
- 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. BE.
- ENGL 349 Late 19th Century Literature 5**
 A study of English literature beginning with Jane Austen and ending with writers of the Victorian Period in 1903. Readings will emphasize the issues important to major writers, such as socio-political and economic development and the purpose of art in an age marked by momentous and intimidating social changes, startling inventions, prodigious energies. BE.
- ENGL 350 Clash of Ideals: The Issue of
 Progress in 19th Century Literature 5**
 An exploration of the ways the modern industrial nation-state affected changes in the literature of England, continental Europe, and Russia from 1800 to around 1910, particularly controversies about religion and science, mass production and art for art's sake, sentimentalism and rationalism, and the proper role of government in advancing the common good. BE.
- ENGL 351 Writing Scripts..... 5**
 Practice and study of script writing for film and television, emphasizing the genre formulas and the special challenges of collaborative media. CW.
- ENGL 352 19th Century European Novel 5**
 A study of novels written from the French Revolution to the Fin de Siècle that reflect the intellectual milieu of the period. Authors may include Goethe, Freytag, de Staël, Baudelaire, Stendhal, Hugo, Balzac, Dumas, Flaubert, Sand, Zola, Manzoni, Tolstoy, and Dostoyevsky. BE.
- ENGL 353 Modern Drama 5**
 A study of drama written between 1890 and approximately 1950. The playwrights to be studied might include Ibsen, Shaw, Wilde, Chekhov, O'Neill, Pirandello, and Williams. BE.
- 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.

- ENGL 359 Russian Literature..... 5**
A study of classic 19th- and 20th-century examples of the Russian povest' ("tale") by such authors as Gogol, Dostoevsky, Tolstoy, and Chekhov. Themes may include the "little man" (down-trodden in an unjust society), resurrection and redemption, humor and dignity in the face of chaos, and the steadfast belief in a higher power. BE.
- ENGL 361 Literature of India 5**
An examination of the development of Anglophone writing in India from the late 19th century to the present with an emphasis on the novel. NW.
- ENGL 362 African Literature 5**
A study of postcolonial Anglophone African literature and some francophone writing in translation. Possible topics include the impact of imperialism, cultural and political decolonization, and the place of Africa in a global economy through a study of different literary works. NW.
- ENGL 369 Latin American Literature..... 5**
A study of 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 may include Borges, Vargas Llosa, Garcia Marquez, Neruda, and Fuentes. NW.
- ENGL 373 Canadian Literature..... 5**
A study of Canadian identity and the arts in cultural dialogue with the United States, Europe, and the Commonwealth. Possible topics include nationhood, postcolonial tensions and re-visions, and the relationship between humanity and nature. Authors may range from early settlers and writers such as John Richardson and Susanna Moodie, to Robertson Davies, Alice Munro, Margaret Laurence, Margaret Atwood, and Michael Ondaatje.
- ENGL 374 American Renaissance, 1820-1860..... 5**
A study of nineteenth-century antebellum American literature, including texts by Emerson, Thoreau, Fuller, Poe, Douglass, Hawthorne, Melville, Stowe, Whitman, and Dickinson. Special attention to the way in which these texts engage issues such as revolution, slavery, nationalism, westward expansion, women's rights, democracy, and war. A.
- 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 writers such as Melville, Hawthorne, Twain, Henry James, Cather, Hemingway, Faulkner, Ellison, Baldwin, and Oates. A.
- ENGL 377 American Poets..... 5**
A study of the American spirit as sensed through the words of its poets, with special emphasis on Americans' problematic response to nature and to the nation's history from colonial times to the present day. A.
- ENGL 378 American Drama..... 5**
A study of major American playwrights of the 19th and 20th centuries, including such authors as Glaspell, O'Neill, Hellman, Wilder, Hansberry, Guare, Williams, Wilson, Mamet, Miller, Albee, Shepard, and Wasserstein. A.

- ENGL 380 Fiction of the American South** 5
A study of fiction of the American South, from the Antebellum period to the present, focusing on the effects of slavery and the Civil War on the development of the distinctive Southern voice in such writers as Faulkner, Flannery O'Connor, Peter Taylor, Mary Lee Settle, and Ralph Ellison. A.
- ENGL 381 What is Ethnic American Literature?** 5
An exploration not only of the issues and themes common to American writers of color, but of the very concept of an "ethnic American" literature. NW.
- ENGL 382 Modern African American Literature** 5
A study of emerging and diverging traditions of writings by African Americans from the Harlem Renaissance to the present. Works may include those by Hurston, Hughes, Wright, Ellison, Morrison, Schuyler, West, Murray, Gates, Baldwin, and Wilson. NW.
- 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 postmodern experimentalism. A.
- ENGL 388 The Art of Film** 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 students chosen to be tutors in the Writing Center. 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.
- ENGL 391-393 Special Topics** 1 to 5
- ENGL 396 Directed Study** 1 to 5
- ENGL 400 History of the English Language** 5
A study of the historical development of English and an introduction to linguistics: phonology, morphology, syntax and lexicon in their historical and literary contexts.
- 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. CW.
- ENGL 409 Advanced Fiction Writing** 5
Intensive study and practice of the craft of fiction writing, with emphasis on revision. Includes a craft-focused study of literary models. Prerequisite: ENGL 305. CW.
- ENGL 414 Advanced Non-Fiction Writing** 5
Advanced study of non-fiction genres including travel writing, documentaries, and social commentary. CW.

ENGL 415 Donne and His Critics 5

An examination of John Donne's poetry and prose and the development of Donne criticism during the last 100 years. Students will acquire enough exposure to Donne and his critics to learn the practices of modern literary scholarship and write their own criticism of Donne's texts. EM.

ENGL 416 Milton Seminar 5

A study of the complexity, depth, richness, and significance of John Milton's poetry and prose that situates these works within the literary, cultural, and critical contexts informing them. The course investigates the major interpretive cruxes within Milton's texts and the ways in which scholars have addressed these difficulties. EM.

ENGL 417 Female Gothic..... 5

A study of the history and development of the Female Gothic genre, from the 18th century to the present, focusing on the depiction of women as well as of the men in Gothic narratives who inevitably either marry these women or try to kill them, or possibly both. Film, art and music will supplement the discussion of literary texts. BE.

ENGL 423 Irish Literature..... 5

A study of major texts of the Irish Renaissance and their cultural background in the late 19th century. Writers will include Yeats, Joyce, O'Casey, and Synge. BE.

ENGL 425 Americans in Paris 5

An interdisciplinary study-abroad course that traces the rise of Modernism in its socio-historical-scientific and cultural contexts, from its roots in impressionist and post-impressionist art to its flowering in the literary and artistic life of Paris in the period just before and after WWI. Phase I begins on campus spring quarter and focuses on Hemingway, Stein, Lawrence, Picasso, and other expatriates. Phase II unfolds in late summer in Paris, and may include excursions to Giverny and the south of France. Cross-numbered with ENGL 480 to satisfy the core Interdisciplinary requirement. Enrollment limited. Prerequisite: instructor permission.

ENGL 426 Early American Literature..... 5

A study of the literature of the first settlers in the New World up to the American Revolution, focusing on writers in English and highlighting the major controversies that erupted during this period. Topics may include European attitudes towards and fantasies about the New World, how the settlers imagined masculinity and femininity, and the representation of indigenous and enslaved peoples. Authors may include John Winthrop, Anne Bradstreet, Edward Taylor, Roger Williams, Cotton Mather, Mary Rowlandson, Jonathan Edwards, Mercy Otis Warren, Benjamin Franklin, Thomas Jefferson, Abigail and John Adams, and Judith Sargent Murray. A.

ENGL 427 African American Slave Narratives..... 5

A study of the three forms of slave narratives: 18th century (Equiano), 19th century fugitive narratives (Douglass, Jacobs), and the 20th century WPA narratives, and how each type of narrative reflects the political stance toward slavery in the nation and the world. NW.

- ENGL 429 Slavery and Labor in American Film and Literature 5**
 An interdisciplinary study of the politics of work in America, both forced and free, and the literary and film treatments of these issues. Slave narratives, slave owner narratives, and labor texts, such as Upton Sinclair's *The Jungle* will be considered, along with films such as *Amistad*, *Matewan*, and *Wall Street*. NW.
- 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. NW.
- ENGL 431 Asian American Literature 5**
 A study of several American writers of Asian descent. The course will explore the dominant themes of Asian American literature, the politics of identity, and the tension between the literary issues and social justice. NW.
- ENGL 439 Medieval Women and Writing 5**
 A study of writings by medieval women, which may Marie de France's *Lais*, Heloise's correspondence with Abelard, *The Book of Margery Kempe*, Julian of Norwich's *Showings*, or Christine de Pizan's *Book of the City of Ladies*. Literary, political, and religious texts will be analyzed from a theoretical perspective, focusing on feminist theories. Feminist readings may include works by Hélène Cixous, Julia Kristeva, Theresa de Lauretis, or Eve Sedgwick. PM.
- ENGL 441 International Women's Writing 5**
 A study of contemporary feminist writing from around the world, as well as transnational feminist theory. The course will include different genres—memoirs, fiction, poetry—and will explore women's public and private lives through a transnational lens. NW.
- ENGL 443 The History of Narrative from Homer to Hypertext 5**
 A study of the history of storytelling and narrative from primary oral cultures (using Homer), through the high literate period (using novels and poetry), to the electronic present (using hypertext and computer mediated arts).
- ENGL 446 Contemporary American Fiction 5**
 A study of innovative American fiction that introduces the reader to new and diverse narrative forms. Toni Morrison, Thomas Pynchon, Maxine Hong Kingston, Leslie Silko, Norman Mailer, Don DeLillo, and Ralph Ellison are authors likely to be included in this course. A.
- ENGL 447 Virginia Woolf and Feminism 5**
 An examination of Woolf's contributions to feminist thought through her fiction and non-fiction as well as feminist literary criticism of her work. BE.
- ENGL 474 Postcolonial Literature and Theory 5**
 A study the development of colonial discourse theory and postcolonial literary theory in the writings of Edward Said, Gayatri Spivak, Homi Bhabha, Robert Young and others. These theories will be applied to selected literary works, such as Rushdie's *Midnight's Children*, Achebe's *Anthills of the Savannah*, and Nadine Gordimer's *Burgher's Daughter*. NW.

- ENGL 476 Modernism/Postmodernism**..... 5
A study of 20th century novels concerned with issues that both unify and divide the early part of the century and the later, such as the problem of subjectivity, life in the metropolis, and the movement of history. This course may examine works of Woolf, Dos Passos, Faulkner, Nabokov, Pynchon, and DeLillo. BE.
- ENGL 477 Departmental Honors Directed Reading** 5
Directed reading for students in the English department honors major. Prerequisite: approval of honors project coordinator.
- ENGL 479 Departmental Honors Thesis Supervision**..... 5
Thesis supervision for students in the English department honors major. Prerequisite: approval of honors project coordinator.
- ENGL 478 Major Author Seminar** 5
This course normally focuses on one author writing after 1800. A, BE, NW.
- ENGL 480-483 Interdisciplinary Course**..... 3 to 5
An exploration of one or more contemporary issues and problems by means of several disciplines, including language and literature. Recent topics have included love and marriage, modernism in art and literature, character development, intercultural autobiography, and nature writing. Co.
- ENGL 485 Literary Theory** 5
An examination of 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.
- ENGL 487 Senior Synthesis** 3 to 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. Prerequisite: senior standing. Co.
- ENGL 491-493 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. Graded CR/F. Prerequisites: junior or senior standing, 20 credits of upper-level English, English majors only, and permission of the director of interns.
- ENGL 496 Independent Study** 1 to 5
- ENGL 497 Directed Reading** 1 to 5
- ENGL 498 Directed Research**..... 1 to 5

Environmental Studies

Russell M. Lidman, PhD, Public Affairs Program Director

Gordon L. Miller, PhD, Environmental Studies Program Coordinator

Objectives

Environmental Studies 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' appropriate role within them. The multi-disciplinary program is an approach to understanding the environmental crisis and developing strategies for its solution.

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 environmental 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, master 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

Majors Offered

Environmental Studies

Environmental Studies with a specialization in Public Policy and Urban Affairs

Minor Offered

Environmental Studies

Bachelor of Arts

Major in Environmental Studies

In order to earn the bachelor of arts degree with a major in environmental studies, students must complete a minimum of 180 credits with a cumulative and a major grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 118 or 120 or above		5
Lab Science satisfied by EVST 100		*
Fine Arts (one approved 5 credit course; see course description)		5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Social Science II (ECON 271 or 272 required)		*5
Theology and Religious Studies Phase II (200-299)		5
Ethics (upper division)		5
Theology and Religious Studies III satisfied by THRS 324		*
Interdisciplinary		3 to 5
Environmental Studies Senior Synthesis (EVST 489 and 490 required)		*5

*Included in major GPA.

II. College of Arts and Sciences Requirements

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

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill environmental studies major requirements.

III. Major Program Requirements

75 credits, up to 20 of which may be counted both for the major and core requirements. Courses marked with an asterisk (*) could satisfy both the major and the core.

Area I: Natural Sciences: 20 credits, including:

EVST 100	Introduction to Geosystems	5
EVST 200	Introduction to Ecological Systems	5

Choose one of the following two courses in physical science: 5

ISSC 120	Introduction to Geology
ISSC 207	Air and Water

Choose one of the following three options in ecological science: 5

BIOL 275	Marine Biology
BIOL 470	General Ecology

Any summer course from Blakely Island Field Studies

Area II: Social Sciences: 25 credits including:

SOCL 202	Human Ecology and Geography.....	5
PLSC 300	Environmental Politics	5
PUBA 401	Foundations of Public Administration	5

Choose one of the following six courses: 5

ANTH 230	Cultural Analysis
EVST 473	Sustainable Development in the Tropics
EVST 474	International Environmental Governance
PLSC 480	The Human Prospect*
PLSC 483	Native American Encounters*
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)
EVST 475	Impact Statement Analysis (2)

Area III: Humanities: 20 credits, including:

HIST 351	Environmental History	*5
PHIL 378	Environmental Philosophy	*5
THRS 324	Religion and Ecology	*5

Choose one of the following two courses: 5

EVST 360	Nature Writing and Environmentalism
HIST 341	The Pacific Northwest

Area IV: Statistical Methods

Choose one of the following two courses: 5

ECON 260	Business Statistics
PSYC 201	Statistics for Non-Majors

Area V: Internship

EVST 495	Internship	5
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NOTE: 1. Students are strongly encouraged to seek a minor with their remaining elective credits in close consultation with their advisor. Suggested minors include biology, communication (journalism/mass communication), economics, political science, nonprofit leadership, and 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 environmental studies section of the Schedule of Classes each quarter. 3. A maximum of 20 credits of the environmental studies major courses may also be used to satisfy university core requirements, these courses are marked with an asterisk (*) above; courses so used will be included in the major GPA calculation.

Bachelor of Arts**Major in Environmental Studies****Public Policy and Urban Affairs Specialization**

In order to earn the degree of bachelor of arts with a major in environmental studies public policy and urban affairs specialization students must complete a minimum of 180 credits with a cumulative grade point average of 2.00 and a major grade point average of 2.00 including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 118 or 120 or above		5
Lab Science satisfied by EVST 100		*
Fine Arts (one approved 5 credit course; see course description)		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 (upper division)		5
Theology and Religious Studies III satisfied by THRS 324		*
Interdisciplinary		3 to 5
Environmental Studies Senior Synthesis (EVST 489 and 490 required)		*5

*Included in major GPA.

II. College of Arts and Sciences Requirements

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

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill environmental studies major requirements.

III. Major Program Requirements

One hundred credits, up to 20 of which may be counted both for the major and core requirements. Courses marked with an asterisk (*) could satisfy both the major and the core.

Area I: Natural Sciences: 20 credits, including:

EVST 100	Introduction to Geosystems	5
EVST 200	Introduction to Ecological Systems	5
Choose one of the following two courses in physical science		5
ISSC 120	Introduction to Geology	
ISSC 207	Air and Water	
Choose one of the following three options in ecological science		5
BIOL 275	Marine Biology	
BIOL 470	General Ecology	
Approved summer course from Blakely Island Field Studies		

Area II: Social Sciences: 20 credits including

SOCL 202	Human Ecology and Geography	5
PLSC 300	Environmental Politics	5
PUBA 401	Foundations of Public Administration	5
Choose a. or series b.:		5
a. ECON 468	Natural Resources and Environmental Economics	
b. CEEGR 476	Environmental Law and Impact Studies (3)	
EVST 475	Impact Statement Analysis (2)	

Area III: Humanities: 15 credits, including:

HIST 351	Environmental History	*5
PHIL 378	Environmental Philosophy	*5
THRS 324	Religion and Ecology	*5

Area IV: Statistical Methods: 5 credits

Choose one of the following two courses		5
ECON 260	Business Statistics	
PSYC 201	Statistics for Non-Majors	

Area V: Internship

EVST 495	Internship.....	5
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Area VI: Public Policy and Urban Affairs

In order to earn a specialization in public policy and urban affairs, students must complete 35 credits including:

PLSC 200	Introduction to American Politics	5
ECON 271	Principles of Economics-Macro	5
NPLR 315	Introduction to the Nonprofit Sector.....	5
PLSC 309	Local and State Politics.....	5
PUBA 350	Exploring the American City: Urban Design and Community Development	5
PUBA 353	Housing Design and the Sustainable Community.....	5
Choose one of the following three courses		5
ECON 468	Natural Resources and Environmental Economics	
ECON 471	Government Finance	
ECON 478	Urban/Regional Economics	

Minor in Environmental Studies

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

Choose one of the following two courses		5
EVST 100	Introduction to Geosystems	
EVST 200	Introduction to Ecological Systems	
SOCL 202	Human Ecology and Geography.....	5
HIST 351	Environmental History	5
PHIL 378	Environmental Philosophy	5
PLSC 300	Environmental Politics	5
THRS 324	Religion and Ecology	5

See policy for minors (84-1) for more information.

Environmental Studies Courses

EVST 100	Introduction to Geosystems	5
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Study of the earth's dynamic systems, including earth, air, water, and energy. Special topics focus on natural resources, sustainability and society's interactions with geosystems. Four lecture/discussion hours, three laboratory hours per week. Counts as core lab science for environmental studies majors only.

- EVST 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. Strongly recommended: EVST 100.
- EVST 296 Directed Study** 1 to 5
- EVST 360 Nature Writing and Environmentalism** 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.
- EVST 391-393 Special Topics** 1 to 5
- EVST 396 Directed Study** 1 to 5
- EVST 473 Sustainable Development in the Tropics** 5
Examines sustainable development by analyzing the tensions between conservation and development in tropical biodiversity conservation. Particular attention is paid to the actors and the cultural, economic, and biophysical conditions of the tropics that make sustainable development and conservation particularly challenging. Course objectives are to look at the different perspectives on sustainable development and conservation and to consider the pros and cons of various strategies to conserve the environment and promote development.
- EVST 474 International Environmental Governance** 5
Examines the issues and challenges involved in managing environmental resources of global importance such as forests, biodiversity, air, oceans, and our climate. Focus is on the design, implementation, and effectiveness of international environmental conventions and considers the conditions when conventions succeed or fail.
- EVST 475 Impact Statement Analysis** 2
Stages of preparation of Environmental Impact Studies (EIS). Analysis of effects of EIS, roles of National and State Environmental Protection Acts. Significance of EIS for environmental justice. Prerequisite: junior standing.
- EVST 480 Interdisciplinary Core Course** 3 to 5
Title and content vary.
- EVST 481 Living in the Environment** 5
A core interdisciplinary course that stresses an integrated approach to understanding, confronting, and solving our environmental problems. Students will be engaged in the study of the moral, ethical, historical, social, cultural, and natural principles that have brought us to our present ecological precipice. Students will explore the attitudes and actions that can lead to an equitable lifestyle for humans as part of sustainable ecosystems.

- EVST 482 Current Issues in Environment and Society..... 5**
 Interdisciplinary inquiry into a contemporary issue of particular significance. Students learn about natural-science principles underlying the issue, and consider its significance for humans and human societies. Seminar format emphasizing student-led critical analysis of readings. Assignments include regular brief papers and major research project. Prerequisite: junior standing or higher. Open to majors and non-majors.
- EVST 489 Senior Synthesis I: Environmental Leadership 3**
 First course in a required two-quarter sequence involving application of liberal education to current environmental issues through critical analysis and collaborative research. In this first course, students reflect on college experience and articulate a personal environmental philosophy grown from that experience. Based on this personal philosophy, students then develop individual research proposals focused on current issues of particular interest and importance. Research topic reflects student's individual skills, talents, and sense of priorities around environmental work. Proposals, developed in consultation with class, include analysis of the topic's importance, literature review, development of methodology, and presentation of research plan. Prerequisite: senior standing. Major requirement; satisfies part of core curriculum senior synthesis. Open to non-majors with instructor permission.
- EVST 490 Senior Synthesis II: Research..... 2**
 Second course in a required two-quarter sequence focuses on execution of research and regular class review of drafts, culminating in public presentation of research results. Written research report includes standard professional paper components: abstract, introduction, methodology, results, data analysis, conclusions, bibliography. Public presentation of research study and results. Prerequisite: senior standing. Major requirement; satisfies part of core curriculum senior synthesis. Open to non-majors with instructor permission.
- EVST 491-493 Special Topics 1 to 5**
- EVST 495 Internship 5**
- EVST 496 Independent Study 1 to 5**
- EVST 497 Directed Reading..... 1 to 5**
- EVST 498 Directed Research..... 1 to 5**

Fine Arts

Carol Wolfe Clay, MFA, Chair

Objectives

The fine arts program connects the rich heritage of a Jesuit liberal arts education with the vibrant cultural and artistic resources of Seattle. Our interdisciplinary learning environment encourages collaboration as part of a diverse community of students and faculty. Our programs in music, theatre, and visual art are grounded in the creative and critical study of foundational works, histories and methods. Our focus on contemporary works and our active engagement with the arts community offer our students experiential training that is both professionally and personally rewarding.

The Fine Arts program provides opportunities to:

- study with professional artists in the visual arts, theatre, and music
- study photography through an affiliation with the Photographic Center Northwest
- perform, design and exhibit in Seattle University drama productions, choir concerts, instrumental music concerts and gallery shows
- develop and pursue the writing of mentored research papers
- explore Seattle's rich arts community through theatre, opera, symphony, ballet, art gallery, and museum events off campus
- work with contemporary Seattle artists through our on-campus performing arts series, High Wire
- realize a senior honors project and graduate with departmental honors
- intern with a variety of Seattle arts organizations
- study art abroad

The future for a fine arts graduate might include BFA or MFA programs in the arts, graduate teaching programs, or the beginning of a professional career in the arts.

Degrees Offered

Bachelor of Arts

Bachelor of Fine Arts

Bachelor of Music

Master of Fine Arts in Art Leadership (see *Graduate Bulletin*)

Majors Offered

Fine Arts with emphasis in Drama, Music, Visual Art, Photography or Digital Design (BA)

Visual Art (BA)

Art History (BA)

Drama (BA)

Fine Arts, Art History, Drama or Visual Art with Departmental Honors (BA)

Photography or Photography with an emphasis in documentary photography (BFA)

String Performance (BM)

Minors Offered

Art History

Music

Studio Art

Theatre Performance

Theatre Production

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, 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 110, 211, 212. All other courses in the fine arts department are to be taken for credit.

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 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 advisor.

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 and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to 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 or DRMA 490 or FINR 490 required).....	**5

*An ART, FINR or DRMA interdisciplinary core course may count simultaneously as both a core interdisciplinary course and a major elective.

**Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 any level other than the beginning course of the sequence is achieved by acceptable performance on the Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill fine arts major requirements.

Choose one of the following two courses:

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

III. Major Requirements

60 credits in fine arts, including 30-35 credits in an area of emphasis:

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 for the Theatre I	5
DRMA 350	Acting II	5
DRMA 360	Design for the Theatre II	5

Music Emphasis requirements:

MUSC 100	Introduction to Music Theory.....	5
MUSC 150	Music Theory I.....	2
MUSC 152	Music Theory II.....	2
MUSC 250	Music Theory III.....	2
MUSC 252	Music Theory IV.....	2
MUSC 254	Music Theory V.....	2
MUSC 151	Ear Training I	1
MUSC 153	Ear Training II	1
MUSC 360	Music History I	3
MUSC	Music Lessons	5
MUSC	Music Ensemble	5

Visual Art Emphasis requirements:

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

Choose one of the following two courses: 5

ART 310	Art Since 1945
ART 316	History of Modernism

Choose two of the following five courses: 10

ART 220	Drawing II
ART 240	Painting I
ART 250	Sculpture I

With no more than 5 credits from:

ART 330	Relief Printmaking
ART 331	Monotype Printmaking

Photography Emphasis requirements:

ART 100	Design and Color	5
ART 160	Black and White Photography I	3
ART 212	Survey of Western Art II	5
ART 260	Color Photography I	3
ART 265	Black and White Photography II	3
ART 317	History of Photography	5
ART 360	Black and White Photography III	3
ART 365	Light Control for Photography	3

Digital Design Emphasis requirements:

ART 100	Design and Color	5
ART 120	Drawing I	5
ART 212	Survey of Western Art II	5
ART 271	Digital Imaging	5
ART 275	Typography	5
ART 371	Graphic Design I	5
ART 471	Graphic Design II	5

In addition to the emphasis courses selected, choose the remaining credits, for a total of 60, in any combination. In consultation with the student's advisor, 10 of these credits must be from a discipline other than the area of emphasis and 10 must be taken at the 300-400 level Total 25 to 30

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

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 and a major/program grade point average of 2.00 including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking.	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to 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)		**5

* An ART interdisciplinary core course may count simultaneously as both a core interdisciplinary course and a major elective.

** Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency in a language other than English 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill visual arts 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

55 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

Choose one of the following two courses:

ART 310	Art Since 1945	5
ART 316	History of Modernism	
ART	Electives at the 300-400 level	15

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

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 and a major grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to 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)	.....	**5

* An ART interdisciplinary core course may count simultaneously as both a core interdisciplinary course and a major elective

**Included in major GPA.

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

Choose one of the following two courses: 5

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

55 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 411	Theory and Methods in Art History	5
ART 460	Art History Seminar	5
ART	Electives; minimum 15 credits at the 300-400 level; 5 credits may be studio courses	20

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 and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to 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)	**5

*A DRMA interdisciplinary core course may count simultaneously as both a core interdisciplinary course and a major elective.

**Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill drama 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

55 credits in drama, including:

DRMA 110	Stage Management	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 for the Theatre I	5
DRMA 340	Movement	3
DRMA 350	Acting II	5
DRMA 360	Design for the Theatre II	5
DRMA 420	Directing	5
DRMA	Electives at the 300-400 level	15

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

Bachelor of Arts

Major in Fine Arts, Visual Art, Art History, or Drama with Departmental Honors

The honors program in fine arts is an opportunity for outstanding majors to demonstrate excellence in their chosen artistic discipline by pursuing a directed project in their field. All honors majors will complete a total of 65 credits in the major including the five-credit course FINR/ART/DRMA/MUSC 479 Departmental Honors Thesis Supervision.

Eligibility

Acceptance into the honors major is based on the quality of the proposed project and faculty sponsorship of this project. In addition, it is usually expected that the honors candidate will:

- Have an overall GPA of 3.50 or higher
- Have completed at least 45 credits at Seattle University by the end of junior year
- Have completed at least 15 credits in the major at Seattle University by the end of junior year
- Submit a Change of Major, Degree, or Specialization form to the Office of the Registrar when accepted into the major, degree or specialization

Application

The student must identify a faculty sponsor with whom to work and complete a Fine Arts Honors Proposal form (available in the fine arts office) by October 15 of the senior year. The proposal will be considered by the entire fine arts faculty.

Completion

In order to complete the requirements for departmental honors, the student must maintain an overall GPA of 3.50.

Honors students must complete 65 credits in the major. All majors must complete the five-credit FINR/ART/DRMA/MUSC 479 Departmental Honors Thesis Supervision course. Drama, visual art, and art history majors must complete an additional five-credit course, at the 300-400 level, that focuses on work related to the honors project; this course must be approved by the faculty sponsor.

The honors project must be completed and presented to the public by the end of spring quarter of the senior year and the student must receive a grade of A or A- for the Departmental Honors Thesis Supervision course.

Examples of possible honors projects include:

Visual Arts

- Art history research project and oral presentation
- Gallery exhibition

Drama

Outside the normal parameters of Seattle University productions:

- Performing a solo show
- Directing a play
- Staging a reading of a play the student has written
- Assistant Design

Music

- Performance of original composition
- Recital

Bachelor of Fine Arts Major in Photography

In order to earn the bachelor of fine arts with a major in photography, students must complete a minimum of 180 quarter credits, with a cumulative and a major/program grade point average of 2.00 including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to 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 (ART 480 required)		*
Senior Synthesis (ART 490 required)		*

* Credits included in major requirements

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency in a language other than English 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill photography 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

87 credits in visual art, including:

ART 100 Design and Color 5

ART 105 Freshman Seminar 2

ART 160 Black and White Photography I 3

Choose one of the following two courses: 5

ART 211 Survey of Western Art I

ART 212 Survey of Western Art II

ART 260 Color Photography I 3

ART 265 Black and White Photography II 3

ART 271 Digital Imaging 5

Choose one of the following two courses: 5

ART 310 Art Since 1945

ART 316 History of Modernism

ART 317 History of Photography 5

ART 360 Black and White Photography III 3

ART 365 Light Control for Photography 3

ART 378 Photography Production Seminar 3

ART 412 Theory and Methods in Photography 5

ART 475 The Business of Art 5

ART 478 Photography Portfolio Seminar 2

ART 480 Documentary Photography for Social Change 5

ART 490 Senior Synthesis 5

ART Electives at the 200-level or above 5

ART Electives at the 300-400 level 15

Documentary Emphasis

In addition to the classes listed above, students who wish to pursue an emphasis in documentary photography would substitute nine of the fifteen elective credit requirements with the following documentary courses: Documentary Survey, Documentary Methodology and Documentary Stills and Video.

NOTE: Faculty will review the student portfolio upon completion of sophomore year, or equivalent, to determine eligibility to continue in the photography major.

Bachelor of Music

Major in String Performance

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

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to 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 (MUSC 480 required)*		
Senior Synthesis (MUSC 490 required)*		

* Credits included in major requirements

See detailed core curriculum information in this *Bulletin*.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency in a language other than English 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill music 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

Acceptance to the major requires an audition. Audition dates, times and places are listed on the fine arts website. Auditions may also be scheduled through the fine arts department office. Students must enter the degree program during the fall quarter due to the sequential nature of the music curriculum.

100 credits in music, including:

MUSC 100	Introduction to Music Theory.....	5
MUSC 150	Music Theory I.....	2
MUSC 152	Music Theory II.....	2
MUSC 250	Music Theory III.....	2
MUSC 252	Music Theory IV.....	2
MUSC 254	Music Theory V.....	2
MUSC 151	Ear Training I.....	1
MUSC 153	Ear Training II.....	1
MUSC 251	Ear Training III.....	1
MUSC 253	Ear Training IV.....	1
MUSC 255	Ear Training V.....	1
MUSC 360	Music History I.....	3
MUSC 361	Music History II.....	3
MUSC 362	Music History III.....	3
MUSC 110/310	Applied Lessons – piano.....	3
MUSC 215/415	Applied Lessons – strings.....	21
MUSC 235/435	String Chamber Ensemble.....	12
MUSC 400	String Performance Seminar.....	6
MUSC 410	String Pedagogy.....	2
MUSC 420	Orchestral Excerpts.....	2
MUSC 475	The Business of Art.....	5
MUSC 480	Interdisciplinary Core.....	5
MUSC 490	Senior Synthesis.....	5
MUSC	Electives.....	10

NOTE: All students are required to complete a half-hour junior year solo recital, a one-hour senior year solo recital, and a one-hour senior year string chamber ensemble recital. Solo recitals are developed during applied string lessons. Chamber ensemble recital is developed during string ensemble class.

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

Choose one of the following two courses: 5

ART 310	Art Since 1945	
ART 316	History of Modernism	
ART	Independent study/methods	5
ART	Electives in consultation with an art advisor	10

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

See policy for minors (84-1) for more information.

Minor in Music

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

MUSC 100	Introduction to Music Theory.....	5
MUSC 150	Music Theory I.....	2
MUSC 152	Music Theory II.....	2
MUSC 250	Music Theory III.....	2
MUSC 252	Music Theory IV.....	2
MUSC 254	Music Theory V.....	2
MUSC 151	Ear Training I.....	1
MUSC 153	Ear Training II.....	1
MUSC 360	Music History I.....	3
MUSC	Music Lessons	5
MUSC	Music Ensemble	5

Fine arts majors may not earn a minor in music.

See policy for minors (84-1) for more information.

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

Choose one of the following two courses: 5

ART 310	Art Since 1945	
ART 316	History of Modernism	
ART	Electives in consultation with an art advisor	15

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

See policy for minors (84-1) for more information.

Minor in Theatre Performance

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

DRMA 250	Acting I	5
DRMA 340	Movement.....	3
DRMA 350	Acting II	5
DRMA	Electives in consultation with a drama advisor.....	12
Choose one of the following two courses:		5
DRMA 211	Theatre History I	
DRMA 212	Theatre History II	

Fine arts and drama majors may not earn a minor in theatre performance.

See policy for minors (84-1) for more information.

Minor in Theatre Production

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

DRMA 110	Stage Management.....	2
DRMA 260	Design for the Theatre I.....	5
DRMA 360	Design for the Theatre II.....	5
DRMA	Electives in consultation with a drama advisor.....	13
Choose one of the following two courses:		5
DRMA 211	Theatre History I	
DRMA 212	Theatre History II	

Fine arts and drama majors may not earn a minor in theatre production.

See policy for minors (84-1) for more information.

Fine Arts Courses

FINR 120	Experiencing the Arts	5
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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 391-393	Special Topics	1 to 5
FINR 479	Departmental Honors Thesis Supervision.....	5
FINR 480-483	Interdisciplinary Core Course	3 to 5

Title and content vary.

FINR 490	Senior Synthesis	5
FINR 491-493	Special Topics	1 to 5
FINR 496	Independent Study	1 to 5
FINR 497	Directed Reading	1 to 5
FINR 498	Directed Research.....	1 to 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 105 Freshman Seminar **2**

An introduction to arts practices. Course meets one time per week in the spring quarter and covers topics such as framing, photography techniques for art reproduction (analog and/or digital), use of ARTstor, an introduction to arts resources (material and supply sources, libraries, museums and galleries throughout the Puget Sound), general research techniques for writing art history papers, making studio arts projects and copyright laws.

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 **3**

An introduction to black and white photography designed to teach camera operation, exposure techniques, film development, printing, and the elements of composition. Lectures, demonstrations, critiques and discussions, and weekly slide presentations on noted photographers. Weekly photography assignments designed around technical information presented in class. Students must have their own adjustable 35mm camera. No prerequisites.

- ART 161 Digital Photography I..... 5**
 An introduction to digital photography designed to teach camera operation, exposure techniques, printing techniques and technology, basic photographic principles, color theory and 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 photography and reading assignments designed around the technical information in class. Students must have their own adjustable digital camera that functions on fully manual mode. Fulfills fine arts core requirement. No prerequisites.
- 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 the principles of drawing to the study of the human figure. Investigation of human proportion, advanced techniques and composition with various drawing media. Prerequisite: ART 120.
- ART 230 Introduction to Printmaking..... 5**
 Exploration of the five major families of fine art printmaking: relief, intaglio, stencil, planographic, electronic/digital. Course includes readings, lectures, discussion, gallery visits, technical demonstration and the production of simple exemplary prints in small limited editions. Each student produces a final book of prints. Drawing skills and prior experience in art will be helpful but are not necessary. Fulfills fine arts core requirement.

- 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 and 120.
- 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 instructor permission.
- 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 instructor permission.
- ART 271 Digital Imaging**..... 5
Introduction to the industry standard software, Adobe Photoshop and Illustrator, for the beginning digital artist. These powerful digital tools will enable the student to create, edit, and manipulate images and text into a stable pre-press format. Projects will be assigned to help students develop technical skills.
- ART 275 Typography** 5
A digital and hands-on design studio course studying the design and use of letterforms. Students will learn to appreciate the many possibilities in typographic design through exploration and experimentation. Basic history of type, anatomy of type and classification of typeface will be covered. Prerequisite: ART 100.
- ART 291-293 Special Topics** 1 to 5
- ART 296 Directed Study**..... 1 to 5
- ART 310 Art Since 1945** 5
An introduction to the key movements, issues and themes explored by Western artists since 1945. Unlike traditional survey classes that attempt to provide a general familiarity of a broad time period, this class will be focused more narrowly through topical investigations. Though slide-based lectures will anchor the course, in-class discussions will be encouraged at all times. Prerequisite: ART 212

- ART 313 Medieval Art..... 5**
Investigation of the production, function and reception of medieval art, focusing especially on Western Europe from c.800-1500 CE. The course is organized thematically, with a focus on the Medieval Church as the site of intersection for the aesthetic, symbolic, ideological, performative and didactic aspects of art. Topics include tradition and innovation; representations of class and gender; the medieval artist; cultural interaction; and the medieval sense of space/place. No prerequisites, although ART 211 or equivalent strongly advised.
- ART 315 19th 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. Prerequisite: ART 212.
- ART 316 History of Modernism..... 5**
This course examines developments in visual art from the "painting of modern life" of Edouard Manet in the 1860s through Surrealist explorations of the unconscious in the 1930s. Particular attention is paid to examining competing definitions of modernism, both during the period under examination and in subsequent writing about it, and to examining modernism in visual art within the context of the sweeping cultural, social, and political changes that occurred during these decades. Prerequisite: ART 212.
- 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. Fulfills fine arts core requirement.
- 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**
Advanced study in the contemporary practices and theories of drawing. Emphasis on the development of individual approaches that identify and develop skills and perception relative to personal imagery. Prerequisite: ART 120 or instructor permission.
- 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 337 Calligraphy, Basic Hands..... 5**
 An introduction to the art and craft of handmade letters with a focus on mastering the three most basic alphabets developed in the western writing tradition. Knowledge of these hands will form a basis for practicing the art of calligraphy for its own sake as well as providing an introduction to the applied arts of graphic design, visual communication, and typography. No prerequisites, although ART 100 or equivalent advised.
- ART 338 Calligraphy, Italic Hands..... 5**
 An introduction to the art and craft of Italian Renaissance hand made letters known as italic writing. Students will learn the formal italic style, the swash italic style and the informal cursive style. This course will be useful for students interested in the applied arts of graphic design, visual communication, and typography as well as Renaissance History. No prerequisites, although ART 100 or equivalent advised.
- 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. Offered every other year. Prerequisite: ART 240.
- 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 instructor permission.
- 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, 265 or instructor permission.
- 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 strobe 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, 265 or instructor permission.
- ART 366 Documentary Survey 3**
 An overview of documentary photography in which students complete a documentary project of their own choosing. The class will examine how documentary style creates a bridge between social issues and photographic possibilities. Class readings, slide lectures and discussion will review a vast range of historic and contemporary documentary projects including handsome fine art portfolios published by major publishers and small publications distributed by activist organizations.

- ART 367 Documentary Methodology..... 3**
An introduction to the methodology of documentary photography. This class will examine student past projects, creative vision and realization of mission. Class lectures will focus on definition of audience, student intention, mission statements and project research techniques (interviews, sound, location shots, collaboration, project outline and planning, post-production issues, budget, editing, exhibition and distribution).
- ART 368 Documentary Stills and Video 3**
A unique class which examines the implication of combining still photography and video to create a documentary work. The class will include an overview of documentary filmmaking, readings and project reviews, which examine collaborative efforts between photographers and filmmakers. Students will work within a team of documentary filmmakers and sound technicians to create a multi-media documentary project.
- ART 371 Graphic Design I 5**
A digital studio class focusing on the fundamentals of graphic design. Students will address the work and thought process inherent in combining typography with image development. Emphasis on the creative problem solving process. Development of formal and technical skills as they relate to graphic design. Prerequisites ART 271 and 275, or instructor permission.
- ART 378 Photography Production Seminar 3**
The junior production course for photography majors, this course focuses on making and critiquing work. Students begin to develop a portfolio of work reflecting their practice to date and in preparation for the senior year BFA exhibition.
- ART 391-393 Special Topics 1 to 5**
- ART 396 Directed Study 1 to 5**
- ART 411 Theory and Methods in Art History 5**
This seminar explores the many methodologies employed by art historians to understand works of art, including Biography, Formalism, Connoisseurship, Scientific Analysis, Psychoanalytic Theory, Iconography, Semiotics, Structuralism, Post-Structuralism, Marxism, and Feminism. Students will engage with the questions and debates that have shaped the field of art history, and attempt to understand how the discipline itself is part of historical processes. Through critical reading and reflective response, students will not only investigate art history's history but also begin to articulate our own positions and voices. Prerequisites: ART 211 or ART 212 and one 300- level course in art history; or instructor permission.
- ART 412 Theory and Methods in Photography 5**
This seminar explores the many methodologies employed by art historians and critics to understand works of photography throughout its historical development. Students will engage with the questions and debates that have shaped the field of critical analysis and discourse about the medium, and attempt to understand how the discipline itself is part of historical processes. Through critical reading and class discussions, students will not only investigate critical analysis of photography but also begin to articulate their own positions and voices. Students will develop their own portfolio during the quarter inclusive of artist statement. Prerequisites: ART 478 or instructor permission.

- ART 440 Painting III** 5
Advanced study in the theory and practice of acrylic painting. Emphasis on the development 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 instructor permission.
- 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. Prerequisites: ART 211 or ART 212 and one 300- level course in art history or instructor permission.
- ART 471 Graphic Design II** 5
A continuation of concepts studied in Graphic Design I to include more in-depth study and specialized projects. Beginning development of a professional portfolio. Prerequisite: ART 371.
- ART 475 The Business of Art** 5
An overview of the business aspects of being an artist and/or working in an arts organization. The goal is to develop an awareness of the many issues that impact on the success or failure of artists to make a living in their creative vocation. Topics will be relevant to visual and performing artists and those who seek to enter the arts as a profession. Cross-listed with MUSC 475.
- ART 478 Photography Portfolio Seminar** 2
The senior portfolio course for photography majors, this course culminates in the BFA exhibition. Course focuses on final edit, production (final prints) and presentation of images.
- ART 479 Departmental Honors Thesis Supervision** 5
Thesis and/or project supervision for students in the fine arts department honors program. Prerequisite: approval of department chair.
- ART 480 Documentary Photography for Social Change** 5
An examination of the impact of photography as a vehicle for social, economic and/or political change. Students will study the language of photography and the history of social documentary photography, while spending time "embedded" within a community service based agency in Seattle. Students will document the daily struggles, successes and challenges of these organizations, learning to bridge the gap between social issues and photographic possibilities. Weekly critiques and discussions will assist students in the editing and refinement of their final projects. Interdisciplinary core class.
- ART 482-483 Interdisciplinary Core Course** 3 to 5
Title and content vary.

ART 490	Senior Synthesis	5
Explores topics in the arts as it synthesizes the core and the major. Team-taught each winter quarter by one faculty member in each division area—visual art, theatre and music. Format includes readings, writings, discussions and presentations. Prerequisite: senior standing and eligibility for graduation		
ART 491-493	Special Topics	1 to 5
ART 495	Art Internship	1 to 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 advisor. Graded CR/F. Junior or senior standing.		
ART 496	Independent Study	1 to 5
ART 497	Directed Reading	1 to 5
ART 498	Directed Research	1 to 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 101	Experiencing Theatre	5
The elements of theatre and the role of theatre in contemporary society. Explores the collaborative process of the playwright, actor, designer, director, and producer. Includes creative projects, analytical writing, and attendance at local theatre performances. Fulfills fine arts core requirement.		
DRMA 110	Stage Management	2
Theoretical and practical study of stage management for the performing arts from audition through performance. An in depth study of the duties of a stage manager including backstage operations, scheduling, safety and emergency procedures		
DRMA 200	Voice	2
Vocal production for the stage. Exercises in relaxation, breathing, breath control and dialects. Includes memorization of texts.		
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 214 History of Costume** 5
The history of Western European clothing from ancient civilizations to current times. A study of clothing as a cultural aesthetic, personal adornment and expression of beliefs. Aspects of the course will include attendance at theatre performances. An additional emphasis on application of this information to costume design for the stage. Fulfills fine arts core requirement.
- DRMA 225 Production Workshop** 1 to 5
Hands-on laboratory experience constructing sets and costumes and providing production support for university drama productions.
- 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. Fulfills fine arts core requirement.
- DRMA 260 Design for the Theatre I** 5
Introduction to the elements of theatre set, lighting, and costume design: visual thinking, script analysis, contemporary materials, reflective writing, and attendance at local theatre performances. Fulfills fine arts core requirement.
- DRMA 265 Audio Recording** 3
A lab-oriented introduction to the primary tools of a small recording and editing studio equipped with an industry standard Digidesign Pro Tools digital audio workstation. Through hands-on weekly exercises students learn the fundamentals of signal routing, microphones, digital recording, editing, effects processing, midi and virtual instruments. May be repeated for a maximum of 9 credits. Cross-listed with MUSC 265.
- DRMA 291-293 Special Topics** 1 to 5
- DRMA 296 Directed Study** 1 to 5
- DRMA 340 Movement** 3
Aspects of theatrical movement. Each quarter one specific form will be studied, for example: stage combat, period movement, dance. May be repeated for a maximum of 9 credits.
- DRMA 350 Acting II** 5
Acting with emphasis on realism and beginning scene study. For any level of ability. Develops basic stage craft and characterization.
- DRMA 360 Design for the Theatre II** 5
Historical study and contemporary projects in theatre set, lighting, and costume design from concept through creation to realization. Offered every other year. Prerequisite: Design for Theatre I or instructor permission.
- DRMA 370 Lighting Design** 3
Theoretical and practical study of lighting design for the performing arts. An in-depth study of light including the design/technical processes and the role of light in live performance.

DRMA 391-393 Special Topics	1 to 5
DRMA 396 Directed Study.....	2 to 5
DRMA 400 Performance/Production Practicum.....	1 to 5
DRMA 401 Performance/Production Practicum.....	1 to 5
DRMA 402 Performance/Production Practicum.....	1 to 5
Participation in university drama productions. Prerequisite: instructor permission.	
DRMA 404 Playwriting.....	5
Creative writing for performance. Includes development, structure, and editing. Prerequisite: instructor permission.	
DRMA 420 Directing.....	5
Theory and practice of directing for the stage. Script analysis, staging techniques, collaborating with theatre artists including actors, designers, and playwrights. Includes final presentation of a live performance. May be repeated for credit. Prerequisite: instructor permission.	
DRMA 430 Puppetry.....	5
The art and craft of puppetry: design, construction, manipulation, character development, scripting, performance. Includes historical and cultural perspectives. Prerequisite: instructor permission.	
DRMA 450 Acting III.....	5
Acting with emphasis on language and scene study. Develops vocal techniques and style. Prerequisite: Acting I, II or instructor permission.	
DRMA 460 Advanced Design.....	5
Advanced projects in theatrical set, lighting and costume design. Prerequisite: Design for Theatre I, II, or instructor permission.	
DRMA 479 Departmental Honors Thesis Supervision.....	5
Thesis and/or project supervision for students in the fine arts department honors program. Prerequisite: approval of department chair.	
DRMA 480-483 Interdisciplinary Core Course	3 to 5
Title and content vary.	
DRMA 490 Senior Synthesis	5
Explores topics in the arts as it synthesizes the core and the major. Team-taught each winter quarter by one faculty member in each division area—visual art, theatre, and music. Format includes readings, writings, discussions, and presentations. Prerequisite: senior standing and eligibility for graduation.	
DRMA 491-493 Special Topics	1 to 5
DRMA 495 Drama Internship.....	1 to 5
Supervised work experience or apprenticeship in specific drama related area of study in the community. Graded CR/F. Prerequisites: junior or senior standing, fine art or drama majors only with faculty advisor permission.	

DRMA 496	Independent Study	1 to 5
DRMA 497	Directed Reading	1 to 5
DRMA 498	Directed Research	1 to 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 100 Introduction to Music Theory 5
Practical study of the language of music from the rudiments of music theory, scales, key and time signatures, terminology and basic rhythmic exercises. Experiential aspect of the course will include attendance at concert performances. Fulfills fine arts core requirement.

MUSC 101 Experiencing Music..... 5
Explores the creative process of Western, world, and urban music through listening and writing. Critical thinking, reflective writing and attendance at local concerts in the Seattle area will all be crucial elements to completing the class. Fulfills fine arts core requirement.

MUSC 110 Piano Lessons *1 to 2
Private lessons in piano. Mandatory CR/F. Maximum 12 credits. Prerequisite: instructor permission.

MUSC 111 Voice Lessons..... *1 to 2
Private lessons in voice. Mandatory CR/F. Maximum 12 credits. Prerequisite: instructor permission.

MUSC 115 String Instrument Lessons..... *1 to 2
Private lessons in string instruments including violin, viola and cello. Mandatory CR/F. Maximum 12 credits. Prerequisite: instructor permission.

MUSC 118 Brass Instrument Lessons *1 to 2
Private lessons in brass instruments including trombone, trumpet, french horn etc. Mandatory CR/F. Maximum 12 credits. Prerequisite: instructor permission.

MUSC 119 Wind Instrument Lessons *1 to 2
Private lessons in flute, clarinet, saxophone, oboe, bassoon. Mandatory CR/F. Maximum 12 credits. Prerequisite: instructor permission.

MUSC 121 Percussion Instrument Lessons..... *1 to 2
Private lessons in percussion instruments including mallets, skins etc. Mandatory CR/F. Maximum 12 credits. Prerequisite: instructor permission.

- MUSC 123 Guitar Lessons *1 to 2**
Private lessons in guitar. Mandatory CR/F. Maximum 12 credits. Prerequisite: instructor permission.
- MUSC 130 University Chorale *1**
Singing and performance skills, musical interpretation, and sight reading. Maximum 12 credits. Audition required.
- MUSC 131 Consort 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. Audition required.
- MUSC 132 Men's Chorale *1**
A choir of male voices. Singing and performance skills, musical interpretation, and sight reading. Maximum 12 credits. Audition required.
- MUSC 133 Women's Chorale *1**
A choir of female voices. Singing and performance skills, musical interpretation, and sight reading. Maximum 12 credits. Audition required.
- MUSC 135 Instrumental Ensemble *1**
Small ensemble performance experience for persons proficient in voice or an instrument. Maximum 12 credits. Prerequisite: instructor permission.
- MUSC 140 Beginning Voice Class *1**
- MUSC 141 Beginning Guitar Class *1**
- MUSC 142 Electronic Piano Class *1**
Maximum 3 credits.
- MUSC 150 Music Theory I 2**
First course in the first year of music theory. The first-year theory sequence covers music theory through species counterpoint, triads and inversions, principles of chord progression, non-harmonic tones, harmonic rhythm, analysis and the harmonization of bass lines and melodies. Offered winter quarter. Prerequisite: MUSC 100. (winter)
- MUSC 151 Ear Training I 1**
First year ear training. Sight-singing and solfège in treble and bass clefs, simple rhythmic and melodic dictation, aural recognition of intervals, scales and chords. Prerequisite: MUSC 100. (winter)
- MUSC 152 Music Theory II'2**
Second course in the first year of music theory. The first-year theory sequence covers music theory through species counterpoint, triads and inversions, principles of chord progression, non-harmonic tones, harmonic rhythm, analysis and the harmonization of bass lines and melodies. Prerequisite: MUSC 150. (spring)
- MUSC 153 Ear Training II 1**
A continuation of first year ear training. Sight-singing and solfège in treble and bass clefs, simple rhythmic and melodic dictation, aural recognition of intervals, scales and chords. Prerequisite: MUSC 151. (spring)

- MUSC 205 African Drumming 2**
An introduction to African Drumming including common rhythms, techniques, and cultural background. Students learn to play individually as well as in a group. Drums provided. May be repeated for a maximum of 6 credits.
- MUSC 215 Applied Lessons – Strings..... 1 to 2**
All applied lessons in the area of violin, viola, cello, and bass will involve intensive private study of the technique and repertoire of the student's principal instrument. Specific requirements in applied lessons are defined by the departmental faculty and the applied instructor. All applied lessons demand significant practice and preparation time outside of the lesson time itself. All students in applied lesson courses present to a formal jury at the end of each quarter and the final grade reflects both the judgment of the objective jury and the evaluation of the student's applied instructor. Freshman and sophomore Bachelor of Music majors only.
- MUSC 235 String Chamber Ensemble 1 to 2**
Individual, on-going string chamber music ensembles are created at the beginning of each quarter, assigned repertory and coached. Similar groups (quartets, trios, etc) are often linked together into a structured classroom format for coaching. Freshman and sophomore Bachelor of Music majors only.
- MUSC 240 Voice Class..... 2**
The process of learning about the voice as a musical instrument. Vocal technique, vocal health and music fundamentals necessary for learning and interpreting song.
- MUSC 250 Music Theory III 2**
First course in the second year of music theory. The second-year theory sequence will cover the harmonic style of the later 19th century: study of irregular resolutions, modulation to remote keys, diminished 7th chords, 9th, 11th and 13th chords, non-dominant 7th chords, chromatically altered chords and analysis of appropriate 19th century literature. Prerequisite: MUSC 152. (fall)
- MUSC 251 Ear Training III..... 1**
Second year ear training. Continuing studies in rhythmic singing and sight-singing in four clefs; harmonic dictation in two, three and four parts and in changing meter. Prerequisite: MUSC 153. (fall)
- MUSC 252 Music Theory IV 2**
Second course in the second year of music theory. The second-year theory sequence will cover the harmonic style of the later 19th century: study of irregular resolutions, modulation to remote keys, diminished 7th chords, 9th, 11th and 13th chords, non-dominant 7th chords, chromatically altered chords and analysis of appropriate 19th century literature. Prerequisite: MUSC 250. (winter)
- MUSC 253 Ear Training IV 1**
Second year ear training. Continuing studies in rhythmic singing and sight-singing in four clefs; harmonic dictation in two, three and four parts and in changing meter. Prerequisite: MUSC 251. (winter)

- MUSC 254 Music Theory V** 2
Third course in the second year of music theory. The second-year theory sequence will cover the harmonic style of the later 19th century: study of irregular resolutions, modulation to remote keys, diminished 7th chords, 9th, 11th and 13th chords, non-dominant 7th chords, chromatically altered chords and analysis of appropriate 19th century literature. Prerequisite: MUSC 252. (spring)
- MUSC 255 Ear Training V** 1
Second year ear training. Continuing studies in rhythmic singing and sight-singing in four clefs; harmonic dictation in two, three and four parts and in changing meter. Prerequisite: MUSC 253. (spring)
- MUSC 265 Audio Recording** 3
A lab-oriented introduction to the primary tools of a small recording and editing studio equipped with an industry standard Digidesign Pro Tools digital audio workstation. Through hands-on weekly exercises students learn the fundamentals of signal routing, microphones, digital recording, editing, effects processing, midi and virtual instruments. May be repeated for a maximum of 9 credits. Cross-listed with DRMA 265.
- MUSC 291-293 Special Topics** 1 to 5
- MUSC 296 Directed Study** 1 to 5
- MUSC 310 Piano Lessons** *1 to 2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 110 or instructor permission.
- MUSC 311 Voice Lessons** *1 to 2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 111 or instructor permission.
- MUSC 315 String Instrument Lessons** *1 to 2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 115 or instructor permission.
- MUSC 318 Brass Instrument Lessons** *1 to 2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 118 or instructor permission.
- MUSC 319 Wind Instrument Lessons** *1 to 2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 119 or instructor permission.
- MUSC 321 Percussion Instrument Lessons** *1 to 2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 121 or instructor permission.
- MUSC 323 Guitar Lessons** *1 to 2
Mandatory CR/F. Maximum 12 credits. Prerequisite: MUSC 123 or instructor permission.
- 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 instructor permission.
- 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 instructor permission.

- 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 instructor permission.
- MUSC 340 Jazz Band 1**
Participation in the SU Jazz Band including, but not limited to, drums, bass, piano, saxophone, trumpet, guitar, and trombone. Maximum 12 credits. Prerequisites: audition or instructor permission. CR/F.
- MUSC 360 Music History I 3**
Survey of Western music covering the musical periods and styles of the Medieval, Renaissance and Baroque. Prerequisite: MUSC 153, 254.
- MUSC 361 Music History II..... 3**
A continuation of the survey of Western music covering the musical periods of the classical and romantic eras. Prerequisite: MUSC 360.
- MUSC 362 Music History III..... 3**
A continuation of the survey of Western music covering the musical periods of the modern and contemporary eras. Prerequisite: MUSC 361.
- MUSC 391-393 Special Topics 1 to 5**
- MUSC 396 Directed Study..... 2 to 5**
- MUSC 400 String Performance Seminar 1**
Weekly instruction that will provide performance opportunities for students. General instruction in instrumental playing, preparation for the profession, work in audition techniques, and guest master classes. Bachelor of Music majors only.
- MUSC 410 String Pedagogy 2**
Study of the principles and practices of music teaching focused on the string instruments. The discussion of methods and materials is followed by guided laboratory work with both class and private students and observations of master teachers. Junior or senior Bachelor of Music majors only.
- MUSC 415 Applied Lessons – Strings 2**
All applied lessons in the area of violin, viol, cello and bass will involve intensive private study of the technique and repertoire of the student's principal instrument. Specific requirements in applied lessons are defined by the departmental faculty and the applied instructor. Students perform a half-hour solo recital in the junior year and a one-hour solo recital in the senior year. Junior and senior Bachelor of Music majors only.
- MUSC 420 Orchestral Excerpts 2**
Preparation of standard orchestral excerpts essential in the competition circuit for positions with all symphony orchestras. Junior or senior Bachelor of Music majors only.

- MUSC 435 String Chamber Ensemble 1 to 2**
 Individual, on-going string chamber music ensembles are created at the beginning of each quarter, assigned repertory and coached. Similar groups (quartets, trios, etc) are often linked together into a structured classroom format for coaching. Students perform a formal public chamber music recital in their senior year. A chamber music jury is required before the ensemble presents its public performance. Junior and senior Bachelor of Music majors only.
- MUSC 475 The Business of Art 5**
 An overview of the business aspects of being an artist and/or working in an arts organization. The goal is to develop an awareness of the many issues that impact on the success or failure of artists to make a living in their creative vocation. Topics will be relevant to visual and performing artists and those who seek to enter the arts as a profession. Cross-listed with ART 475.
- MUSC 479 Departmental Honors Thesis Supervision..... 5**
 Thesis and/or project supervision for students in the fine arts department honors program. Prerequisite: approval of department chair.
- MUSC 480 Interdisciplinary Core Course 3 to 5**
 Title and content vary.
- MUSC 481 Music, Spirituality, and Community 5**
 An examination of the complex relationships between music, spirituality, race and culture. How does spirituality and music affect an entire community? Can music change the way we believe and our own personal outlook on life? Attendance at various places of worship and an immersion into the life and music of our neighboring communities. Readings, writings, and weekly discussions culminate in a final research paper or project. Interdisciplinary core class.
- MUSC 482-483 Interdisciplinary Core Course 3 to 5**
 Title and content vary.
- MUSC 490 Senior Synthesis 5**
 Explores topics in the arts as it synthesizes the core and the major. Team taught each winter quarter by one faculty member in each division area—visual art, theatre, and music. Format includes readings, writings, discussions and presentation. Senior standing and eligibility for graduation.
- MUSC 491-493 Special Topics 1 to 5**
- MUSC 495 Music Internship 1 to 5**
 Supervised work experience or apprenticeship in specific music related area of study in the community. Graded CR/F. Junior or senior fine arts majors with faculty advisor permission.
- MUSC 496 Independent Study 1 to 5**
- MUSC 497 Directed Reading 1 to 5**
- MUSC 498 Directed Research 1 to 5**
 Music minors with senior standing only.

Global African Studies Minor

Olúfémi Táíwò, PhD, Director

Objectives

The global African studies minor is designed to educate students about the African World, globally conceived. On one hand, it takes the African American experience as the anchor. On the other, it enables students to acquire knowledge of the African World outside the United States, including the rest of the "New World" from Canada to Chile and all points in-between, as well as Africa, and wherever else in the world the African presence is to be found.

For further information, please contact the director or check the website at seattleu.edu/artsci/GASP.

Minor in Global African Studies

In order to earn a minor in global African studies, students must complete 35 credits with a grade point average of 2.00, including:

Required Course

GAST 401 Global African Studies Colloquium 5

Choose 15 credits from the following: 15
(see departmental listings for non-GAST course descriptions)

ENGL 120 Introduction to Literature (only sections identified as meeting global African studies minor requirements)
GAST 200 Introduction to Global African Studies
GAST 480-483 Interdisciplinary Core Course
HIST 121 Studies in Modern Civilization (only sections identified as meeting global African studies minor requirements)*
PHIL 220 Philosophy of the Human Person (only sections identified as meeting global African studies minor requirements)

Core Social Science II course, from any of the following disciplines:
ANTH, PLSC, SOCL; 200-level (only sections identified as meeting global African studies minor requirements)

Core Interdisciplinary course [480-483] identified as meeting global African studies colloquium requirements

*Students in the College of Arts and Sciences take HIST 120 for core; this course satisfies their additional college requirement in history.

Courses selected for the minor in Global African Studies may include those which fulfill university core or elective requirements and those taken to fulfill a major.

Choose 15 credits from the following, one course must be in an African language, including French and Spanish 15
(see departmental listings for non-GAST course descriptions)

ENGL 362	African Literature
ENGL 382	Modern African American Literature
ENGL 427	African American Slave Narratives
ENGL 441	International Women's Writing
ENGL 474	Post-Colonial Literature and Theory
FREN	courses in African language as approved by advisor
GAST 291-293	Special Topics
GAST 301	African History: Prehistory – 1500
GAST 303	African History: 1800 – the Present
GAST 304	African American History: the Beginning – 1877
GAST 305	African American History: 1877 – 1954
GAST 402	Slavery: Comparative Perspectives
GAST 403	Blacks in the New World
GAST 404	African Intellectual Heritage: Global Perspectives
GAST 405	The Atlantic Slave Trade
GAST 406	Islam in the Global African World
GAST 407	Christianity in the Global African World
HIST 363	African History: 1800 to the Present
HIST 366	African American History: 1954 – the Present
HIST 375	History of the Caribbean
PLSC 337	Third World Politics
PLSC 338	The Political Economy of Africa
SOCW 317/SOCL 317	Race and Ethnicity
SPAN	courses in African language as approved by advisor
THRS 312	African-American Religious Experience

Other courses as approved by program director

Global African Studies Courses

GAST 200	Introduction to Global African Studies.....	5
A requirement designed to introduce students to the history, theory, and main themes of African and African American Studies from a global perspective.		
GAST 296	Directed Study.....	1 to 5
GAST 291-293	Special Topics	5
GAST 301	African History: Prehistory – 1500	5
A survey and analysis of Africa from the earliest period to 1500.		
GAST 303	African History: 1800 – the Present	5
A survey and analysis of Africa from 1800 to the present.		
GAST 304	African American History: the Beginning – 1877	5
A survey and analysis of African American history from the colonial period to the end of Reconstruction.		
GAST 305	African American History: 1877 – 1954.....	5
A survey and analysis of African American history from Reconstruction to 1954.		

GAST 396	Directed Study	1 to 5
GAST 401	Global African Studies Colloquium.....	5
GAST 402	Slavery: Comparative Perspectives	5
	An examination of the global practice of slavery and its many variations.	
GAST 403	Blacks in the New World.....	5
	What has been the role and experience of peoples of African descent in the New World beyond the United States? What have been their contributions to the development of New World cultures from Canada to Chile and all points in between?	
GAST 404	African Intellectual Heritage: Global Perspectives.....	5
	An intellectual history of the Global African World.	
GAST 405	The Atlantic Slave Trade	5
	A course that introduces students to the complexities of the Atlantic Slave Trade and its aftermath.	
GAST 406	Islam in the Global African World.....	5
	This course examines from diverse disciplinary perspectives the phenomenon of Islam in the global African world.	
GAST 407	Christianity in the Global African World.....	5
	This course examines from diverse perspectives the phenomenon of Christianity in the global African world.	
GAST 480-483	Interdisciplinary Core Course	5
	Title and content vary.	
GAST 496	Independent Study	1 to 5

History

Thomas Murphy, S.J., PhD, Chair

Objectives

Defying classification as belonging to either the humanities or the social sciences, 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 that 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

Majors Offered

History

History with Departmental Honors

Minor Offered

History

Policy for University Honors Program Students

University 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 include HIST 201 and 202 and ten credits of 300-level non-European history courses.

Those wishing to complete the history major with departmental honors will, in addition, complete HIST 479.

University Honors Program students who have successfully completed all five University Honors history courses may earn a minor in history by completing 15 or more history credits at the 300-400 level.

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 and major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above	.....	5
Lab Science	.....	5
Fine Arts (one approved 5 credit course; see course descriptions)	.....	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 to 5

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill history major requirements.

III. Major Requirements

60 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 202	Historiography	5

HIST	Electives (300 - 400-level, may include HIST 480-484 and HIST 490)	30
HIST	Research Seminar (400-level)	10

NOTE: HIST 201 and 202 are to be completed by the end of the junior year.

Bachelor of Arts

Major in History with Departmental Honors

The history departmental honors major offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have a cumulative and major/program grade point average of 3.50 and must have completed HIST 120, either HIST 121 or 231, HIST 201, HIST 202, and 10 elective credits in history. (As an alternative to HIST 120 and HIST 121 or 231, students may complete the University Honors Program history sequence: HONR 121, 122, 123, 221, and 223). Interested students should apply to the department chairperson in spring quarter for the following year's department honors courses. Upon acceptance, a Change of Major, Degree, or Specialization form is submitted to the Office of the Registrar.

Completion of the major: During senior year, departmental honors students will take the departmental honors sequence (HIST 377 in fall quarter, a 400-level history research seminar in winter quarter, and HIST 479 in spring quarter). Students in the departmental honors program complete 5 credits of course work above the norm for history majors (for a total of 65 credits in history) and write a substantial thesis under the direction of a faculty member. The thesis will be graded by departmental faculty and presented in an oral defense. In order to complete the requirements for departmental honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50. In addition, the grade received for HIST 479 Departmental Honors Thesis Supervision, must be an A or A-. In addition to the bachelor of arts major in history requirements, the honors major also includes:

Departmental Honors Requirements

10 credits in history departmental honors, including:

HIST 377	Departmental Honors Directed Reading	5
HIST 479	Departmental Honors Thesis Supervision	5

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
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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, may include HIST 480-484 and HIST 490)	20

See policy for minors (84-1) for more information.

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 191-193 Special Topics	1 to 5
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.	
HIST 202 Historiography	5
Foundational course in the major that will examine the writing of history with an emphasis on theoretical issues such as historicism, empiricism, hermeneutics, social history, modern and postmodern theories, feminist thought, and cultural studies.	
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 296 Directed Study	1 to 5
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 308 European Colonialism..... 5**
An exploration of the dynamic of colonial power, race, class and gender issues in the shaping of colonial societies and everyday practices, the role of violence, and the rise of anti-colonialism and national identities. Asia is the main focus but attention is also paid to the Pacific and Africa.
- 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 later Middle Ages—the expansion of Europe toward Asia, north Africa, and the Near East—to the Early Modern Period expansion to the Americas, China, the South Pacific, and Sub-Saharan Africa. The course will examine the political, social, economic, and cultural dimensions of this interaction.
- 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 1800-1914: Politics, Society and Culture 5**
A survey that examines nationalism, imperialism, revolutions, urban history, the rise of the middle class, high and mass cultures and gender relations in Europe and its colonies.
- HIST 314 Paris, Capital of the 19th Century 5**
Transformed into the first modern European city, 19th century Paris was the playground of the newly powerful middle class that sought animation, cosmopolitanism and leisure in elegant cafes, parks and other sites of entertainment. Significant attention will be paid to the rise of modern visual culture: photography, the cinema, mass illustrated press, modern art, advertising and other forms of visual entertainment.
- HIST 315 Europe 1914-1945 5**
Examination of the causes of WWI, the impact on European society, the Russian revolution, and the rise of Fascism. WWII and the Holocaust.

- HIST 316 European and Colonial Cities, 18th-20th Centuries 5**
An exploration of social, political, cultural and architectural history of European and colonial cities. Cities were the sites of work and revolutions, magnets for migrants, stages for urban spectacles and showcases for imperial ambitions.
- HIST 317 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.
- HIST 318 19th Century European Intellectual Cultural History 5**
Study of the significant figures and movements of nineteenth-century European intellectual and cultural development.
- HIST 319 20th Century European Intellectual Cultural History 5**
Study of the significant figures and movements in twentieth-century European intellectual and cultural development.
- HIST 320 Russian History, 1861-1964 5**
Examines social, political, and attitudinal factors in Russian history, from the emancipation of the serfs in 1861 to the demise of Nikita Khrushchev's power in 1964.
- HIST 322 Gender and Power in Medieval and Early Modern Europe 5**
An examination of how constructions of gender influenced the ways that power and entitlement were distributed in medieval and early modern European society. The course focuses on legal status, religion, economics, marriage and sexuality, government, warfare, medicine, and material culture.
- HIST 326 Women and Revolution 5**
Examination of women's roles in revolutionary movements.
- HIST 327 History of Motherhood 5**
A survey of the history of motherhood from evolutionary biological and cross-cultural perspectives. Applies to women studies major or minor.
- HIST 328 United States 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 studies major or minor.
- HIST 329 Gender and Sexuality in U. S. History 5**
A survey of gender and sexual identities in U. S. history. Applies to women studies major or minor.
- HIST 331 Peoples of Early America 5**
An exploration of early American societies from prehistoric times to the verge of the American Revolution.
- HIST 333 The Age of the American Revolution 5**
Seven Years War to the 1820s.

- HIST 335 Mid-Nineteenth Century United States** 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.
- 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 341 The Pacific Northwest** 5
Past development and present problems of the states comprising the Pacific Northwest, with emphasis on Washington state.
- HIST 342 United States Immigration History** 5
The course will focus on the experience of the Irish and German immigrants of the mid-19th century and of Eastern and Southern Europeans, Asians, and Mexicans of the late 19th and early 20th centuries. The attitudes of both immigrants and natives are to be examined as well as issues of assimilation.
- HIST 344 History of U.S. Social Welfare Policy** 5
Study of attitudes and policies concerning poverty and related social problems throughout United States history.
- HIST 345 The Evolving Presidency** 5
An exploration of the factors that explain presidential success or failure from Washington to the present. Personality and presidential performance. The crisis presidency. Cross-listed with PLSC 301.
- HIST 349 Contemporary U.S. Since 1945** 5
An examination of the major changes in the period after the Second World War, with special emphasis on the development of American pluralism.
- HIST 350 History of United States Foreign Policy** 5
This course will examine the conduct of the United States government in international affairs from the Continental Congress' alliance with France in 1778 to the war on terror in the early twenty-first century. There will be a particular emphasis on the twentieth century through the use of primary source manuscripts reflecting the practice of American diplomacy.
- HIST 351 Environmental History** 5
A historical survey of human interaction with the environment. Topics include images of nature, case studies in human modification of the environment, social conflicts over land and resource use, and the emergence of the environmental movement in the 20th century.

HIST 353	Film and History	5
An examination of classic Hollywood and international films. Theme will vary.		
HIST 354	History and Narrative	5
An examination of the philosophy, theory, and methodology of writing history, using texts from professional historical writing, historical fiction, and journalism.		
HIST 363	African History: 1800 to the Present	5
This course will explore the development of African history since 1800.		
HIST 366	African American History: 1954-Present	5
This course will explore the development of African American history since 1954.		
HIST 368	United States Race Relations	5
An examination of the essential secondary literature in the field of the history of race relations in the United States.		
HIST 370	Colonial Latin America	5
A survey of colonial Latin America beginning with Amerindian and Iberian societies prior to 1492 and up to the movements for independence in the nineteenth century.		
HIST 371	Modern Latin America	5
A survey of the history of Latin America from independence in the early nineteenth century up to the present day.		
HIST 372	History of Mexico	5
A survey of the history of Mexico with special emphasis on the Mexican Revolution.		
HIST 373	History of Cuba	5
An overview of the history of Cuba with particular focus on issues of race, class, gender, national identity, and revolution.		
HIST 374	Revolution in Latin America	5
An exploration of the origins and outcomes of revolutionary movements in modern Latin America.		
HIST 375	History of the Caribbean	5
This course will examine such themes as European colonialism, the Atlantic slave trade, plantation societies, race relations, labor, migration, independence, national identity, and culture in the history of the Caribbean region.		
HIST 377	Departmental Honors Directed Reading	5
Content will vary depending on the instructor.		
HIST 381	Pre-Modern China	5
The development of Chinese culture, thought, and institutions during the pre-modern era.		
HIST 383	Modern China	5
The Western impact and the Chinese revolutions from the Opium Wars to the People's Republic.		
HIST 385	Traditional Japan	5
The development of Japanese culture, thought, and institutions to 1867.		

- HIST 386 History of Southeast Asia 5**
Survey of Southeast Asian history. Prerequisite: none
- HIST 387 Modern Japan 5**
The transformation of Japan from feudalism to imperial power and industrial giant, 1867 to present.
- HIST 388 East Meets West: A History of Travelers
To and From the Asian World..... 5**
Through the lens of travelers' accounts, an examination of ways the West and Asian worlds have experienced and imagined each other and how interaction has shaped relations between these two worlds over the last five hundred years. Cross-listed with INST 388.
- HIST 389 Modern Asia Revolutions 5**
Problems and forces in selected Asian nations in the 20th century, especially of circumstances, leaders, tactics, and doctrines of revolutionary groups in China.
- HIST 391-393 Special Topics 1 to 5**
- HIST 396 Directed Study..... 1 to 5**
- HIST 408 Modern European and Colonial Cultural History 5**
Seminar with focus on modern European and colonial cultural history from the 19th to the mid-20th centuries. Students work on a research paper using primary sources.
- HIST 412 The French Revolution and Napoleon 5**
Studies the institutions and events that led to the fall of old France with research paper based on primary documents required.
- HIST 415 Fin-de-Siecle Modernism 5**
Research seminar with a focus on the development of modernism in philosophy, political and social theory, art, literature and music from the 1870s through the First World War. Students work on a research paper using primary documents.
- HIST 416 Cultural History of European Cities..... 5**
Seminar with focus on topics in the history of nineteenth or twentieth century European cities. Students work on a research paper using primary documents.
- HIST 420 Hitler and the Holocaust 5**
Seminar examines the rise of Hitler, the Nazi Revolution, World War II, and the Holocaust. Students work on a research paper using primary documents.
- HIST 433 American Revolution 5**
Research seminar on social, political, religious, and economic aspects of the American Revolution with paper based on primary documents required.
- 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.

- HIST 469 Research Seminar on Slavery** 5
This course will offer history major students the opportunity to write a research paper of 20-30 pages using primary source documents concerning some aspect of slavery in the United States.
- HIST 473 Cuban History Research Seminar** 5
Research seminar on the history of Cuba.
- HIST 475 History of the Caribbean Research Seminar**..... 5
In this course students will produce a major research paper based on primary-source documents dealing with some aspect of Caribbean history from the fifteenth century to the present.
- HIST 479 Departmental Honors Thesis Supervision**..... 5
Course is open only to students who are accepted into the departmental honors major and is an extension of a research seminar offered the previous quarter.
- HIST 480 Interdisciplinary Core Course** 3 to 5
The exploration of contemporary issues and problems by means of several disciplines, including history. Topics will vary depending on the instructor.
- HIST 482-483 Interdisciplinary Core Course** 3 to 5
Title and content vary.
- HIST 484 Native American Encounters** 5
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. Core interdisciplinary option. Cross-listed with PLSC 483.
- HIST 490 Senior Synthesis** 3 to 5
- HIST 491-493 Special Topics** 1 to 5
- HIST 494 Practicum**..... 5
Supervised work experience in an off-campus public history setting; consultation with history department's intern coordinator required.
- HIST 495 Internship** 5
- HIST 496 Independent Study** 1 to 5
- HIST 497 Directed Reading** 1 to 5
- HIST 498 Directed Research**..... 1 to 5
Department permission required.

University Honors Program

James C. Risser, PhD, Director

Objectives

The University Honors Program is a two-year program designed for students who wish to 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, art, and social 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 four to six students and the instructor. Oral examinations are given at the end of each quarter.

Applications/Scholarships

In addition to the Seattle University application, the candidates must apply directly to the University Honors Program. Applicants are accepted into the University Honors Program on the basis of their academic record and by providing evidence that they are willing to make the extra effort necessary to meet the intellectual challenges provided through the University Honors Program. Honors scholarships are granted on the condition that students participate fully in the University Honors Program each quarter and maintain at least a 3.00 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, laboratory science, phase three theology, the interdisciplinary course, and senior synthesis. Students are advised to take their mathematics and science requirements while in Honors. The theology and interdisciplinary requirements may be satisfied by completion of the optional HONR 480 course in their junior or senior year. All 75 credits offered in the two year curriculum are required for completion of the University Honors Program, which will be noted on the student's transcript. All HONR courses are closed to non-matriculated students.

Degree Program

Students accepted into the University Honors Program are admitted to both their degree program and the Honors Program. Students may thus be advised in both programs until the Honors Program is complete. Students who decide to major in philosophy, English, or history and have completed the University Honors Program sequence in these disciplines will have already accumulated five 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.

University Honors Program Courses

Students registering for these courses must have been admitted to the University 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 4

A critical reading and discussion of the works that have most deeply influenced the development of Western culture from ancient times to the Renaissance. These works include the Bible, the dialogues of Plato, and the philosophical writings of Augustine and Thomas Aquinas.

HONR 111 Humanities Seminar – Literature..... 5

HONR 113 Humanities Seminar – Literature..... 4

An examination of those literary works that have most deeply influenced the development of the Western culture. In addition to reading texts from the ancient Near East, the courses will include an examination of the texts of Homer and the Greek playwrights, Virgil, Dante, and Chaucer.

HONR 121 Humanities Seminar – History..... 5

HONR 122 Humanities Seminar – History..... 4

HONR 123 Humanities Seminar – History..... 4

Historiography and historical survey of the Near East, Greek, Roman, Medieval, and Renaissance eras.

HONR 142 Humanities Seminar – Art..... 4

A study of painting, sculpture, and architecture from 1300 – 1600.

HONR 201 Humanities Seminar – Thought 4

HONR 202 Humanities Seminar – Thought 4

HONR 203 Humanities Seminar – Thought 4

A critical reading and discussion of the writings of influential modern and postmodern philosophers, including Descartes, Leibniz, Locke, Hume, Wollstonecraft, Kant, Hegel, Mill, Kierkegaard, Nietzsche, Heidegger, Derrida and Levinas.

HONR 211	Humanities Seminar – Literature.....	4
HONR 212	Humanities Seminar – Literature.....	4
HONR 213	Humanities Seminar – Literature.....	4
	An examination of those literary authors who have had a great influence on Western culture, including Shakespeare, Donne, Milton, Dryden, and Pope. In addition, the course will include an examination of the texts of the Romantics and the Victorians, and the modern literature of our multicultural world.	
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 251	Humanities Seminar – Social Science	4
	An introduction to political science, economics or sociology through an examination of influential thinkers primarily in the 19th and 20th century.	
HONR 291-293	Special Topics	1 to 5
HONR 296	Directed Study.....	1 to 5
	Private work by arrangement. Prerequisite: approval of program director.	
HONR 396	Directed Study.....	1 to 5
	Private work by arrangement. Prerequisite: approval of program director.	
HONR 480	Humanities Seminar – Interdisciplinary	6
	A team taught seminar examining issues at the intersection of science and theology. Possible topics: Darwinism, cosmology, bioethics.	
HONR 481-483	Interdisciplinary Core Courses.....	3 to 5
	Title and content change each term.	
HONR 496	Independent Study.....	1 to 5
	Private work by arrangement. Prerequisite: approval of program director.	

International Studies

Kan Liang, PhD, Director

Objectives

The international studies major enables students to act competently and conscientiously within an increasingly interconnected world. Students acquire multiple perspectives on global patterns and local contexts through a broad interdisciplinary curriculum, while having the opportunity to focus on a specific world region, international issue, or subject area. International studies majors also connect their classroom-based knowledge to real world situations through direct foreign experience, senior research projects, and internship work. An international studies degree equips students to pursue further study and internationally oriented careers in fields such as government, business, law, communications, development and education.

Degree Offered

Bachelor of Arts

Major Offered

International Studies

Minor Offered

International Studies

Study Abroad

The international studies major requires a learning program in a country other than the United States. The university offers approved study abroad opportunities through exchange, consortia, and independent programs. Each study abroad program will demonstrate high academic standards and insist on theoretical and practical interaction where students strengthen their understanding of the local culture and global situation of their country of choice. An acceptable study abroad experience for the international studies major includes a minimum of 15 quarter credits, or its equivalent in semester credits, provided that the student meets full time status in the chosen study abroad program.

Bachelor of Arts Major in International Studies

In order to earn the bachelor of arts degree with a major in international studies, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above		5
Lab Science		5
Fine Arts (one approved 5 credit course; see course descriptions)		5
PHIL 220	Philosophy of the Human Person	5
Social Science I		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 (THRS 311, 331, 332, 333 or 334 required)		*5
Interdisciplinary Course		3 to 5
Senior Synthesis		3 to 5

*Included in major GPA

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135 or equivalent	15
HIST 121 Studies in Modern Civilization.....	5

NOTE: 1. All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Language Department for details on the examinations. International students educated to age 16 in a language other than English may request a waiver of this first-year language requirement. 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

A minimum of 65 credits in international studies, including:

Area I: Foundational: 35 credits:

INST 200	Introduction to International Studies.....	5
INST 325	International Political Economy.....	5

(ECON 271 is a prerequisite for INST 325)

Choose one of the following two courses:..... 5

INST 230	Comparing Nations
INST 260	Introduction to International Politics

Choose one of the following two courses..... 5

INST 364	Postcolonial Studies
INST 388	East Meets West

Modern Language above 135..... *15

*Students who place out of second year language must take 45 credits of international studies major electives, listed below.

Area II: Major Electives 30

Choose a total of thirty credits of approved electives from the lists below. At least ten credits must be chosen from the humanities list and ten credits from the social sciences list. Fifteen of the thirty elective credits must also be in courses with a regional studies (RS) designation, and at least five of these fifteen regional studies credits must have a non-Western designation (RS-NW). Note that regional studies electives also meet the humanities and social science elective requirements 30

Humanities (minimum of 10 credits required):

Choose from the approved courses below (see department listings for non-INST course descriptions):

RS = Course also fulfills major Regional Studies elective

RS-NW= Course also fulfills major non-Western Regional Studies elective

AIST 200	Introduction to Asian Studies (RS-NW)
ART 213	Survey of Asian Art (RS-NW)
ART 318	Art Traditions of Japan (RS-NW)
ART 319	Arts of China (RS-NW)
ENGL 361	Literature of India (RS-NW)
ENGL 362	African Literature (RS-NW)
ENGL 369	Latin American Literature (RS-NW)
ENGL 430	Japanese Drama (RS-NW)
ENGL 441	International Women's Writing
GAST 200	Introduction to Global African Studies (RS-NW)
GAST 301-303	African History (RS-NW)
GAST 402	Slavery: Comparative Perspectives
GAST 404	African Intellectual Heritage: Global Perspectives (RS-NW)

GAST 405	The Atlantic Slave Trade
GAST 406	Islam in the Global African World (RS-NW)
GAST 407	Christianity in the Global African World (RS-NW)
HIST 308	European Colonialism
HIST 315	Europe 1914-1945 (RS)
HIST 316	European and Colonial Cities, 18th-20th Centuries
HIST 317	Community and Conflict in Europe since 1945 (RS)
HIST 320	Russian History: 1861-1964 (RS)
HIST 363	African History: 1800 to the Present (RS-NW)
HIST 370	Colonial Latin America (RS-NW)
HIST 371	Modern Latin America (RS-NW)
HIST 372	History of Mexico (RS-NW)
HIST 373	History of Cuba (RS-NW)
HIST 375	History of the Caribbean (RS-NW)
HIST 383	Modern China (RS-NW)
HIST 386	History of Southeast Asia (RS-NW)
HIST 387	Modern Japan (RS-NW)
HIST/INST 388	East Meets West: A History of Travelers*
HIST 389	Modern Asian Revolutions (RS-NW)
HIST 420	Hitler and the Holocaust (RS-NW)
INST 364	Postcolonial Studies*
INST/HIST 388	East Meets West: A History of Travelers*
LBST 323	World Geography for Teachers
MODERN LANG	French, Chinese, German, Japanese, Spanish 215, 225, 235 (these 200-level courses may fulfill major elective requirements only if in a language different from the one used to meet the major modern language requirement)
CHIN 315	Chinese Culture and Civilization (RS-NW)
FREN 315	French Culture and Civilization (RS)
FREN 325	Introduction to French Literature (RS)
FREN 415	French Literature and Culture, 19th Century (RS)
FREN 445	French Literature and Culture, 20th Century (RS)
FREN 450	Methodology of Teaching French
FREN 452	Development of Modern French (RS)
FREN 460	Québécois Literature and Culture (RS)
FREN 463	Topics in Contemporary French Culture (RS)
FREN 470	Francophone African and Caribbean Literature and Culture (RS-NW)
GERM 315	German Culture and Civilization (RS)
JPAN 315	Japanese Culture and Civilization (RS-NW)
MDLG 391-393	Special Topics (non-US)
SPAN 315	Latin American and Spanish Culture and Society (RS-NW)
SPAN 325	Introduction to Latin American and Spanish Literature (RS-NW)

SPAN 416	Latin American and Spanish Literature and Culture (RS-NW)
SPAN 420	Literature and Revolution (RS-NW)
SPAN 450	Methodology of Teaching Spanish
SPAN 426	Latin American Literature and Culture, 20th Century (RS-NW)
SPAN 463	Contemporary Spanish Literature and Culture

***INST 364 and INST 388/HIST 388 and may only count as an elective if not selected for the major foundational requirement**

Social Sciences (minimum of 10 credits required):

Choose from the approved course list below (see department listings for non-INST course descriptions):

RS = Course also fulfills major Regional Studies elective

RS-NW= Course also fulfills major non-Western Regional Studies elective

ANTH 325	Asian Households and Families (RS-NW)
ANTH 341	Contemporary Chinese Society (RS-NW)
ANTH 342	Contemporary Japanese Society (RS-NW)
CMJR 325	International Affairs Writing
CMJR 375	Global Strategic Communications
CMJR 385	Cross-Cultural Communication
ECON/INST 325	International Political Economy*
ECON 330	International Economic Events & Business Decisions*
ECON 374	Intermediate Microeconomics *
ECON 375	Asian Economic Development* (RS-NW)
ECON 376	Economic Development *
ECON 378	Financial Markets and Economic Development*
ECON 472	International Economics (International Trade) *
FINC 446	International Corporate and Trade Finance
INST/PLSC 230	Comparing Nations**
INST/PLSC 260	Introduction to International Politics**
INST 320/PLSC 335	Latin American Politics (RS-NW)
INST 321/PLSC 364	US-Latin American Relations (RS-NW)
INST/ECON 325	International Political Economy
INST 330	International Social Development
INST/PLSC 334	Chinese Politics (RS-NW)
INST/PLSC 362	World Order: Peace and Justice
INST/PLSC 365	East Asian Security (RS-NW)
INST/PLSC 366	Comparative Foreign Policy
INST/PLSC 468	Transnational Networks and Globalization
INST/PLSC 485	Indigenous Movements in Latin America (RS-NW)
MGMT 320	Global Environment of Business
MGMT 486	International Management
MKTG 456	International Marketing
PLSC/INST 230	Comparing Nations
PLSC/INST 260	Introduction to International Politics

PLSC 332	Politics of Japan (RS-NW)
PLSC/INST 334	Chinese Politics (RS-NW)
PLSC 337	Third World Politics
PLSC 338	Political Economy of Africa (RS-NW)
PLSC 335/INST 320	Latin American Politics (RS-NW)
PLSC 361	U.S. Foreign Policy
PLSC /INST 362	Global Governance
PLSC 363	North-South Relations
PLSC 364/INST 321	US-Latin American Politics (RS-NW)
PLSC/INST 365	East Asian Security (RS-NW)
PLSC/INST 366	Comparative Foreign Policy
PLSC 432	Social Policy: US and Europe (RS)
PLSC 464	European Union (RS)
PLSC/INST 468	Transnational Networks and Globalization
PLSC 469	Hegemony and Empire
PLSC/INST 485	Indigenous Movements in Latin America (RS-NW)
PSYC 483	Multicultural Psychology: Vietnam and Vietnamese Americans (RS-NW)
SOCW 370	International Social Welfare

*ECON 272 is required for some 300 or 400 level ECON classes. Please consult with the Department of Economics.

**INST 230/PLSC 230 and INST 260/PLSC 260 may only count as an elective if not selected for the major foundational requirement

NOTE: Courses that count for the university core senior synthesis and interdisciplinary core requirements may also be counted towards international studies major elective requirements. Consult your international studies advisor on this prior to registering for senior synthesis and interdisciplinary core courses.

Minor in International Studies

In order to earn a minor in international studies, students must complete 30 credits, as follows:

International Studies Foundations, choose three of the courses below:.....		15
INST 200	Introduction to International Studies	
INST 230	Comparing Nations	
INST 260	Introduction to International Politics	
INST 325	International Political Economy	
INST 364	Post-Colonial Studies	
INST 388	East Meets West	

International Studies Electives..... 15

Complete 15 credits of approved International Studies humanities and social science electives from the lists above. One of these electives (5 credits) must be a designated regional studies course in a non-Western region (RS-NW).

NOTE: Courses satisfying requirements for university core cannot also satisfy requirements for the international studies minor, unless they are senior synthesis or interdisciplinary core courses. Consult your international studies advisor on this prior to registering for senior synthesis and interdisciplinary core courses.

See policy for minors (84-1) for more information.

International Studies Courses

- INST 200 Introduction to International Studies 5**
Examines the causes and consequences of current and past processes of globalization. Provides a grounded study of world economic integration, global governance, transnational social networks, and inter-cultural transformations. Reframes our individuality and communities in a globally situated worldview.
- INST 230 Comparing Nations..... 5**
Political diversity in contemporary nations of Europe, Asia, and Latin America. Structures of power and the social effects of public policies. Applies theories of political economy and political sociology. Core Option: Social Science II. Cross-listed with PLSC 230.
- INST 260 Introduction to International 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. Core Option: Social Science II. Cross-listed with PLSC 260.
- INST 291-293 Special Topics 1 to 5**
- INST 296 Directed Study..... 1 to 5**
- INST 320 Latin American Politics 5**
Four struggles: democratization, sovereignty, development, equity. Consideration of political economy, history, institutions, key actors and case studies. Democratic and authoritarian regimes, state-led and market-led economic policies, revolutionary and non-violent social movements, and identity politics. Cross-listed with PLSC 335.
- INST 321 US-Latin American Relations 5**
Theoretical insights from political science and human geography including historical and ideational perspectives. Themes include sovereignty and intervention, inter-American organizations, trade and development, trans-American migration, and drug trafficking. Cross-listed with PLSC 364.
- INST 325 International Political Economy 5**
Economics and politics of the international system. Trade policy and international gains from trade. Economic and political institutions and economic development. International financial institutions, exchange rates, international financial crises. Pros and cons of globalization. Cross-listed with ECON 325. Prerequisite: ECON 271.

- INST 330 International Social Development..... 5**
 Analyzes concrete livelihood issues in poor countries in light of how development problems are framed and debated internationally. Combines a study of development theories, discourses and organizations with how ordinary people adapt to or confront development. Complements an economic approach by situating international development in postcolonial contexts, and relating this to concerns such as gender, ethnic culture, sustainability, labor, and popular participation.
- INST 334 Chinese Politics..... 5**
 In the context of China's imperial past and revolutions in the 20th century, this course examines the political institutions, policy-making processes, state-society relations, and domestic and international consequences of economic and political development in contemporary China. Cross-listed with PLSC 334.
- INST 362 Global Governance 5**
 How states cooperate to form treaties, institutions and informal agreements. The United Nations and its specialized agencies; GATT, The IMF, World Bank and UNEP, and The Law of the Sea. Theories of institutionalization, integration, regimes, and interdependence. Cross-listed with PLSC 362.
- INST 364 Postcolonial Studies 5**
 Examines the cultural, social, political and economic impact of 19th century European imperialism and 20th century decolonization with a particular emphasis on South Asia and Africa. Students read literary works, watch films, and study the writings of Edward Said, Ngugi wa Thiong'o, Gayatri Spivak, Homi Bhabha, Robert Young and others.
- INST 365 East Asian Security 5**
 Through various theoretical lenses of international relations, this course examines key sources and forces that shape and change the complex dynamics of conflict and cooperation in contemporary East Asia. This process elucidates the strategic importance of East Asia in world politics and the implications for the U.S. foreign and security policy in the region. Cross-listed with PLSC 365.
- INST 366 Comparative Foreign Policy..... 5**
 Examination of key forces at the individual, group, state and systemic levels of analysis that shape and change foreign policy behavior of states in the international system. The impact of these forces is elucidated through cross-national comparisons of foreign policy interests, processes and outcomes. Cross listed with PLSC 366.
- INST 388 East Meets West:
 A History of Travelers To and From the Asian World..... 5**
 Through the lens of travelers' accounts, an examination of ways the West and Asian worlds have experienced and imagined each other and how interaction has shaped relations between these two worlds over the last five hundred years. Cross-listed with HIST 388.

INST 391-393	Special Topics	1 to 5
INST 396	Directed Study	1 to 5
INST 468	Transnational Networks and Globalization	5
<p>Cross-border political networking among non-governmental and social movement organizations. Influence of these networks on globalization, international relations and citizenship. Case studies of transnational advocacy around human rights, terrorism, economic globalization and environmental issues. Studied with theory from political science, sociology and geography. Cross-listed with PLSC 468.</p>		
INST 480-483	Interdisciplinary Core Courses.....	3 to 5
<p>Title and content vary.</p>		
INST 485	Indigenous Movements in Latin America	5
<p>Organization, mobilization and impact of indigenous peoples' movements in Latin America. Legacies of colonialism in current globalization processes; social identities and inequalities; political efficacy of marginalized groups. Theory from inter-disciplinary fields of post-colonial studies, race & ethnic studies, and social movement studies. Implications for social justice and diversity. Meets Core Interdisciplinary requirement. Core Interdisciplinary Option. Cross-listed with PLSC 485.</p>		
INST 490	Senior Synthesis	3 to 5
INST 491-493	Special Topics	1 to 5
INST 496	Independent Study.....	1 to 5

Latin American Studies Minor

Marc McLeod, PhD, Director

Objectives

The Latin American Studies minor enables students to acquire an in-depth, interdisciplinary understanding of the culture, economics, history, literature, and politics of the region. It also provides students with the opportunity to study the experiences of Latin American immigrants and their descendants living in the United States. Designed to complement a major field of study, the minor in Latin American Studies helps to prepare students for employment in a variety of professional and non-profit fields and for graduate studies in a number of disciplines.

Minor in Latin American Studies

In order to earn a minor in Latin American Studies, students must complete 30 credits in the approved courses, with a minor/program grade point average of 2.00. No more than 15 credits from any one discipline may be applied to the minor. At least 15 credits must be from upper-division (300- and 400-level) courses. At least 15 credits must be taken at Seattle University.

In addition to these 30 credits, the minor in Latin American Studies requires completion of first-year college-level language study or its equivalent in Spanish or Portuguese.

Courses selected for the minor in Latin American Studies may include those which fulfill university core or elective requirements and those taken to fulfill a major.

See policy for minors (84-1) for further details.

Courses Approved for the Latin American Studies Minor

HIST 121	Studies in Modern Civilization Latin America and the Caribbean Human Rights in Latin America
HIST 370	Colonial Latin America
HIST 371	Modern Latin America
HIST 372	History of Mexico
HIST 373	History of Cuba
HIST 374	Revolution in Latin America
HIST 375	History of the Caribbean
HIST 473	Cuban History Research Seminar
HIST 475	History of the Caribbean Research Seminar
HIST 391-393	Special Topics (when focused on Latin America)
INST 320	Latin American Politics
INST 321	U.S.-Latin American Relations
INST 391-393	Special Topics (when focused on Latin America)
INST 485	Indigenous Movements in Latin America

PLSC 312	Latino Politics
PLSC 335	Latin American Politics
PLSC 364	U.S.-Latin American Relations
PLSC 391-393	Special Topics (when focused on Latin America)
SPAN 315	Latin American and Spanish Culture and Society
SPAN 325	Introduction to Latin American and Spanish Literature
SPAN 391-393	Special Topics (when focused on Latin America)
SPAN 416	Latin American and Spanish Literature, 19th century
SPAN 420	Literature and Revolution
SPAN 426	Latin American Literature and Culture, 20th Century
SPAN 491-493	Special Topics
	Latin American History, Politics, and Societies
	Latin American Cinema
	Novela Policiaca
	Literatura Chicana
THRS 209	Jesus and Liberation
THRS 311	Latin American Liberation Theology
WMST 391-393	Special Topics (when focused on Latin America)
	Emerging Subjectivities in Chican@ Literature
	Latin American Women Writers
	Sexual Transgressions in Latin@ and Latin American Lit.

Courses Specific to the Latin American Studies Minor

LAST 391-393	Special Topics	1 to 5
LAST 396	Directed Study	1 to 5
LAST 480	Interdisciplinary Core Course	1 to 5
Title and content vary each term		
LAST 496	Independent Study	1 to 5

Law Scholars Program

Angelique Davis, JD, Director

Objectives

This selective, by-invitation-only, program is designed for highly capable entering freshmen who have an interest in attending law school at the conclusion of their undergraduate studies. The program is open to all students in the College of Arts and Sciences and is in addition to a major in the college. The Law Scholars Program provides an opportunity for participating students to apply and be notified of acceptance into Seattle University School of Law prior to the beginning of their junior year. Upon graduation from Seattle University, students successfully completing this program are guaranteed a place in the Seattle University School of Law.

Students in the Law Scholars Program take a series of courses specifically designed to provide a strong foundation for graduate legal studies. The range of courses is broad and includes selections in political theory, the foundations of the law, history, civics and government, economics, logic, and ethics. In keeping with the mission of Seattle University, law scholars will be called upon to explore the values underlying the law and to critically examine the American legal system and issues of social justice. The course of study is rigorous and designed to challenge the best and the brightest of the University's pre-law students.

Participants in the Law Scholars Program have unique access to the School of Law and law-related activities. Student participants will receive invitations to a reception for law scholars, lectures, workshops, and other appropriate law-related activities.

Law Scholars Course of Study

In order to successfully complete the first two years of the Law Scholars Program, the student must:

- complete the required law scholars courses (see below); and
- have an official GPA of at least 3.60 at the end of the freshman year (45 quarter credits) and at the end of the sophomore year (90 quarter credits).

In order to successfully complete the final two years of the Law Scholars Program, the student must in his or her junior and senior years:

- complete the required law scholars courses (see below);
- maintain a cumulative GPA of 3.60 or higher;
- complete the bachelor's degree program in the College of Arts and Sciences;
- take the LSAT examination; and
- maintain a level of conduct consistent with the norms and standards of the legal profession.

Required Law Scholars Courses

All participants in the Law Scholars Program will have been admitted to the College of Arts and Sciences and will take the following courses. Some of these courses may fit within the core and major requirements; others are in addition to the core and major requirements.

Sophomore Year:

ECON 271	Principles of Economics: Macro*
	or
ECON 272	Principle of Economics: Micro*
PLSC 200	Introduction to American Politics**
PHIL 260	Introduction to Logic

Junior/Senior Years:

PLSC 250	Introduction to Political Theory
	or
SOCL 402	Sociological Theory
CRJS 210	Law, Society and Justice
PLSC 321	American Constitutional Law
	or
PLSC 356	American Political Thought

*Economics (Macro or Micro) would be used to meet the Social Science I core requirement.

**Introduction to American Politics would be used to meet the Social Science II requirement.

NOTE: All College of Arts and Sciences graduates are required to demonstrate competency in a modern language consistent with the completion of three quarters (one year) of college work.

Law scholars who are accepted into the School of Law through this early application process and who complete all of the program requirements are guaranteed a place in the School of Law for the year following their graduation. Individuals admitted to law school through this program will also be eligible for consideration for scholarship funds. Please see the law scholars brochure for complete information or contact Office of the Dean, College of Arts and Sciences.

Liberal Studies Program

Philip L. Barclift, PhD, 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 College of Education, and students planning to become teachers should inform the College 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 and major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110, or above.....		5
Lab Science	.....	5

Fine Arts (one approved 5 credit course; see course descriptions).....	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	

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill liberal studies major requirements.

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

III. Major Requirements

60 credits in liberal studies, including:

Humanities (300 - 400-level)	20
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English, fine arts, language, history, liberal studies, philosophy, and religious studies, including five credits in composition/writing

Social Sciences (300 - 400-level)	15
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Anthropology, Asian studies, communications, criminal justice, economics, nonprofit leadership, political science, psychology, public affairs, sociology, social work, women studies, and a limited number of addiction studies courses

Natural Science Elective	5
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Math, Statistics, Computer Graphics, or Computer Science Elective	5
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CMJR 225, 230, 355, 361, 385 or equivalent	5
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LBST 300 Leadership for Community Engagement	5
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LBST 490 Senior Synthesis / Project or approved course	5
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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. 3. No more than 15 credits from this major will be counted towards any minor.

Liberal Studies Courses

LBST 120 Leadership for a Just and Humane World I..... 5

This course is designed to introduce students to competencies that are central to a leader's responsibilities; establishes a framework for understanding leadership theory, principles, ethics, diversity sensitivity, and core leadership values.

LBST 191-193 Special Topics 2 to 5

LBST 200 Leadership for a Just and Humane World II—

Transfer Bridge 5

This course is designed to introduce students to competencies that are central to a leader's responsibilities; establishes a framework for understanding leadership theory, principles, ethics, diversity sensitivity, and core leadership values. Intended for transfer students in place of LBST 120. Prerequisite: sophomore standing.

LBST 220 Leadership for a Just and Humane World II..... 5

This course is designed to help students expand on their fundamental leadership skills in communication, collaboration, group dynamics and process facilitations, diversity awareness, conflict resolution, and problem-solving. Prerequisites: either LBST 120 or LBST 200 and sophomore standing required.

LBST 296 Directed Study..... 1 to 5

LBST 300 Leadership for Community Engagement..... 5

This course is designed to help students connect their service interests with their leadership gifts in order to pursue ethical and effective social change throughout their lives. Through a variety of experiential activities, readings, class lectures, guest presentations and discussions, students will explore critical questions and practices in preparation for a lifetime of engaged leadership in their communities.

LBST 321 Constructs for Teaching and Learning..... 5

This course begins the exploration of teaching and learning. Students will gain knowledge of the history and philosophy of education, the purpose of schools, and how people learn in order to shape their own philosophy and purpose of education. Diversity of today's school populations and its implications will be a focus. Field experience of at least two hours per week through the Children's Literacy Project is a requirement.

LBST 322 Competencies for Teachers and Learners..... 5

This course is a continuation of Constructs of Teaching and Learning. Students will deepen their understanding of the teaching profession by investigating such topics as: educational reform, standards and curriculum, conditions for learning, effective teaching strategies, and self-reflection. They will gain knowledge of effective teaching strategies that enhance learning. Field experience of at least two hours per week through the Children's Literacy Project is a requirement.

LBST 323	World Geography for Teachers	5
This course studies the dynamics of human populations in their cultural integrity and the distribution of populations and resources around the world. Designed primarily for students who hope to become teachers, this course lays special emphasis on ways to learn and to teach geography as a means to promote multicultural understanding in the classroom.		
LBST 391-393	Special Topics	2 to 5
LBST 396	Directed Study	1 to 5
LBST 480-483	Interdisciplinary Core Course	3 to 5
Title and content vary.		
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 advisors must grant final approval of projects, based on written outlines. The thematic content of projects are determined by students' already approved academic program.		
LBST 494	Leadership Service Internship/Project	5
This course serves as an advanced Leadership Practicum and offers the student a chance to serve one of Seattle University's community partners in a capacity similar to that of a management consultant either to help the community partner identify a management problem/policy issue or to help the partner resolve that problem/issue. Prerequisite: LBST 220.		
LBST 496	Independent Study	1 to 5

Medieval Studies Minor

Theresa M. Earenfight, PhD, Advisor

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 modern 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 with a minor/program grade point average of 2.00. 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.

Courses selected for the minor in Medieval Studies may include those which fulfill university core or elective requirements and those taken to fulfill a major.

Approved Courses for Students Enrolled in the Honors Program:

Honors

HONR 103	Humanities Sem: Thought (Medieval Philosophy)	4
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 Divine Comedy	5
ENGL 327	Arthurian Romance	5
ENGL 328	Chaucer	5
ENGL 439	Medieval Women & Writing	5
ENGL 491-493	Special Topics in Medieval Literature	*1 to 5

Fine Arts

ART 391-393	Special Topics in Medieval Art	*1 to 5
DRMA 391-393	Special Topics in Medieval Drama	*1 to 5

History

HIST 491-493	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 291-293	Special Topics in Latin Language	*1 to 5
FRLG 391-393	Special Topics in Latin Language	*1 to 5
Medieval Studies		
MVST 491-493	Special Topics: Medieval Studies	*1 to 5
MVST 496	Independent Study: Medieval Studies	*1 to 5
Philosophy		
PHIL 491-493	Special Topics: Medieval Philosophy.....	*1 to 5
Theology and Religious Studies		
THRS 420	Medieval and Reformation Theology.....	5

Approved Courses for Students Not Enrolled in the Honors Program

See departmental listings for course descriptions.

English (Literature)

ENGL 326	Dante's Divine Comedy	5
ENGL 327	Arthurian Romance	5
ENGL 328	Chaucer	5
ENGL 391-393	Special Topics in Medieval Literature	*1 to 5
ENGL 439	Medieval Women & Writing	5
ENGL 491-493	Special Topics in Medieval Literature	*1 to 5

Fine Arts

ART 391-393	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 491-493	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 291-293	Special Topics in Latin Language	*1 to 5
FRLG 391-393	Special Topics in Latin Language	*1 to 5

Medieval Studies

MVST 491-493	Special Topics: Medieval Studies	1 to 5
MVST 496-498	*Independent Study: Medieval Studies.....	1 to 5

Philosophy

PHIL 302	Medieval Philosophy.....	5
PHIL 491-493	Special Topics: Medieval Philosophy.....	*1 to 5

Theology and Religious Studies

THRS 420	Medieval and Reformation Theology.....	5
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*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.

NOTE: 1. Courses taken for the minor may also be applied to a major in the department of 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 302 (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 (84-1) for more information.

Courses Specific to the Medieval Studies Minor

MVST 480	Interdisciplinary Core Course	3 to 5
Title and content vary each term.		
MVST 491-493	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 advisor required.		

Military Science

Lieutenant Colonel Eric R. Farquharson

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, on active duty or in the National Guard or Reserve. To that end, the program stresses service to country and community through the development of values, attributes, skills and actions necessary for success as a leader.

The Program

The program complements the historical mission of Seattle University in teaching and learning, education for values, preparation for service, and growth of person. Through elective courses, students are exposed to a rigorous curriculum where they learn vital leadership and management skills unique to Military Science. 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 in high school JROTC, and summer Leader's Training Course attendees may complete the program in two years or less. 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. High school seniors interested in applying for four-year scholarships must submit applications. Undergraduate and graduate students with at least two years remaining may be eligible to apply for three-year and two-year scholarships.

Financial Assistance

Cadets may receive financial assistance in a number of forms: two-, three-, and four-year scholarships that are awarded by the Department of the Army annually. Scholarships pay full tuition, book and mandatory fees, are enhanced by room and board grants provided by Seattle University, and pay a monthly stipend for living expenses. Non-scholarship benefits include a monthly stipend and other benefits available through participation with the National Guard or Reserve.

Commissioning Requirements

To be commissioned in the United States Army, students must complete the military science curriculum, including successful completion of the four-week Leader Development and Assessment Course at Fort Lewis, Wash., the summer prior to the last academic year.

The Curriculum

The curriculum is designed to prepare students to become leaders by instilling and developing leader values, attributes, skills, and actions. Behavioral development occurs through course work in the areas of professional military education (PME) and military skills/professional knowledge.

PME requirements are met through the student's course of academic studies and attainment of a baccalaureate degree; completion of the Military Science Advanced Course (MLSC 301, 302, 303, 401, 402, 403) and the Leader Development and Assessment Course (MLSC 314).

Military skills and professional knowledge provide a foundation in such areas as leadership theory, ethics, roles, and responsibilities of the officer in 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 is 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 these important communication skills.

Basic Course

The term Basic Course refers to first and second year courses. MLSC 101, 102, 103, 201, 202, and 204, 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 obligation. A number of popular or challenging extracurricular activities can be associated with these courses. A student can also qualify for entry into the Advanced Course by completing MLSC 215 Leader's Training Course.

1st year	
MLSC 101, 102, and 103	6
2nd year	
MLSC 201, 202, 204	6
MLSC 217	2

Advanced Course

3rd year	
MLSC 301, 302, 303	9
MLSC 314	1 to 5

4th year

MLSC 401, 402, and 403	9
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NOTE: Special topics or independent study courses may be substituted for some courses listed above with the approval of the Professor of Military Science.

Non-matriculated Students

Students attending local community colleges are able to take freshman and sophomore level classes (see Basic Course descriptions) through a cross enrollment agreement with Seattle University. This can be a great way for students to try ROTC without a significant financial commitment while still attending community college. Contact the Military Science Department for details and the cost of the class. (MLSC 101M, 102M, 103M, 201M, 202M, 204M).

Military Science Basic Courses

MLSC 101 Foundations of Leadership	2
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Introduces students to issues and competencies that are central to a leader's responsibilities, establishing a framework for understanding leadership, ethics, and values. The course addresses personal development through life skills training in fitness and time management. Students will develop their own unique leadership style through support of the Seattle University Children's Literacy Project. Students apply, practice, and experience leadership principles in a service-learning environment by forming and leading a non-profit corporation for the purpose of providing tutoring services to local community elementary and middle schools. Students participate in regular reflection exercises and 360 degree leadership feedback geared toward personal and team leadership development.

MLSC 102 Basic Leadership I	2
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Expands upon the fundamentals introduced in the previous term by focusing on communications, leadership, and problem solving. Personal development continues through life skills lessons in problem solving, goal setting, interpersonal and cross-cultural communication skills, and assertiveness skills. Students will also learn land navigation skills required to be successful during the winter Leadership Lab. The course will allow students to continue to develop their own unique leadership style through support of the Seattle University Children's Literacy Project begun in MLSC 101.

MLSC 103 Basic Leadership II	2
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Continues the development of leadership fundamentals by focusing on concise written and oral communication skills. Students will be required to complete several written projects and conduct an in-class presentation. The course will also focus on small unit tactics needed to be successful during the spring Leadership Lab. Students will continue to develop their own unique leadership style through support of the Seattle University Children's Literacy Project begun in MLSC 101.

MLSC 196 Directed Study	1 to 6
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MLSC 201	Leadership in Organizations.....	2
Focuses on an experiential examination of leadership, decision-making, and group process with an emphasis on teambuilding, motivation, communication, creative problem-solving, and planning and organizing. Through the Center for Service and Community Engagement, students apply, practice, and experience leadership principles in a service learning environment. They form and lead an organization for the purpose of providing support to a local non-profit agency. Students are asked to reflect upon their actions and those of others.		
MLSC 202	Leadership and Teamwork.....	2
Explores issues and competencies that are central to a leader's responsibilities, establishing a framework for understanding leadership, ethics, and values. Experiential learning activities necessitate students make decisions under stress and simulated risk as a small group leader. There is a continuation of the service-learning project from MLSC 201. Students are identified as class leaders in order to plan, resource, and execute the service-learning project.		
MLSC 204	Leadership Studies in American Military History	2
Studies leaders and battles throughout history with an emphasis on 18th through 21st century United States military history. Through a comprehensive study of the principles of modern warfare, students are challenged to identify leadership traits that fostered success on the battlefield, with a goal of understanding the uniqueness of the American military experience. Additional emphasis is put on current affairs, recent military innovations and issues related to the global war on terrorism. The course remains a conduit for the continuation of the service-learning project started in MLSC 201.		
MLSC 215	Leader's Training Course.....	1-5
A four-week basic leadership development practicum which utilizes both indoor and outdoor experiential activities to help students develop and practice the fundamentals of effective team building and leadership. Students develop leadership skills through exposure to interactive personal and group experiences, with an emphasis on building trust, setting and evaluating goals, group problem solving, and effective interpersonal communications. Students participate in regular reflection exercises and 360 degree leadership feedback geared toward personal and team leadership development. The course is conducted at Fort Knox, Kentucky, and all travel, lodging and meals are paid.		
MLSC 217	Physical Conditioning I.....	2
A physical fitness conditioning program designed to develop muscular strength and cardiovascular endurance. Students are introduced to the physical fitness standards of the U.S. Army.		
MLSC 219	Physical Conditioning II.....	1
A physical fitness conditioning program designed to further develop muscular strength and cardiovascular endurance.		
MLSC 291-293	Special Topics	1 to 5
MLSC 296	Directed Study.....	1 to 5

Military Science Advanced Courses

MLSC 301 Leadership and Problem Solving I..... 3

Students plan, conduct risk management, and lead a variety of training events, to include physical training sessions and leadership labs. Students learn and apply advanced map reading skills through practical exercises. Students conduct a Confidence Course and Obstacle Course at Fort Lewis, Wash., testing reasoning, problem-solving, and teambuilding. Students receive direct written and verbal feedback of their leadership abilities from faculty and senior cadets. Students are introduced to and conduct written self-assessment focusing on their leadership by utilizing the Army leadership attributes, skills, and actions assessment process. Prerequisites: MLSC 215 or six courses from MLSC 100- and 200-series; or by permission of instructor.

MLSC 302 Leadership and Problem Solving II..... 3

Students continue study in self-assessment, physical training, and map reading. Students learn land navigation and conduct practical exercises at Fort Lewis, Wash., during day and limited visibility conditions. Students are introduced to small-unit tactics and are evaluated on planning and conducting small-unit tactical training. The course builds upon the student's reasoning and problem-solving abilities by introducing stress and variables to the situation. Students learn the Combat Orders process and apply the process by giving written and oral orders. Students continue written self-assessments and receive verbal and written feedback from faculty and senior cadets. Prerequisites: MLSC 302; or by permission of instructor.

MLSC 303 Leadership and Ethics..... 3

Students examine the role communications, values, and ethics apply to effective leadership. Emphasis is placed on improving written and oral communication abilities, small unit tactics, group problem solving, and effective interpersonal skills. Students apply what they have learned throughout the school year during Situational Training Exercises conducted at Fort Lewis, Wash., while leading a squad. Students continue to develop leadership skills to prepare them for the Leader Development and Assessment Course during the summer. Students continue written self-assessment and receive verbal and written feedback from faculty and senior students. Prerequisites: MLSC 301, 302; or by permission of instructor.

MLSC 314 Leader Development and Assessment Course..... 1 to 5

A four-week advanced leadership development practicum which utilizes both indoor and outdoor experiential activities to help students develop and practice effective teambuilding and leadership. Students develop leadership skills through exposure to interactive personal and group experiences, with an emphasis on building trust, setting and evaluating goals, group problem solving, and effective interpersonal communications. Students participate in regular reflection exercises and 360 degree leadership feedback geared toward personal and team leadership development. The course is conducted at Fort Lewis, Wash., and all travel, lodging and meals are paid.

MLSC 391-393 Special Topics 1 to 5

MLSC 396 Directed Study 1 to 5

MLSC 401	Leadership and Management I.....	3
Students receive instruction about officership in the Army profession by identifying personal career choices and accession into the Army as a lieutenant. The student is introduced to Army Operations by learning and exercising Army Training Management to include planning, briefing, and exercising large-scale training activities as the commanders and staff of the Cadet Battalion. Students are introduced to the Army command and staff organization and individual responsibilities therein. Leadership counseling—to include personal, crisis, officer evaluation reports, and the junior leader development program—is taught and exercised. Prerequisites: three courses from MLSC 300-series; or by permission of instructor.		
MLSC 402	Leadership and Management II.....	3
Students focus on personal leadership processes, organizational development and physical well-being. Other areas of emphasis are learning assertiveness techniques in communicating, organizing and conducting meetings, and stress management. Leadership theory, as well as organizational culture, values, and change is presented. Cadets continue their experiential leadership training by leading and managing the Cadet Battalion. Prerequisites: MLSC 401; or by permission of instructor.		
MLSC 403	Officership.....	3
Transitioning to Lieutenant, leadership synthesis and preparation to attend the Basic Officer Leader Course II and III. This final course of the Military Science IV year reviews required leadership knowledge, Army culture, and military training skills necessary to enter the Army as a commissioned officer. Cadets continue their experiential leadership training by leading and managing the Cadet Battalion. Prerequisites: MLSC 402; or by permission of instructor.		
MLSC 491	Special Topics	1 to 5
MLSC 496	Independent Study.....	1 to 5

Aerospace Studies (Air Force ROTC)

Colonel P. K. White

Department Chair, Faculty, University of Washington

Objectives

Air Force Reserve Officer Training Corps (AFROTC) is offered to students at Seattle University 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 attending any approved two- or four-year college or university. Students of all majors may be eligible to apply for a scholarship. For further information contact the unit admissions officer at (206) 543-2360 or email at afrotc@u.washington.edu. You can also visit the UW AFROTC Web page at www.det910.com.

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, one leadership laboratory, and two physical fitness sessions 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 six-week field training course, typically 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 between \$400-\$500 per month. They are furnished text books and uniforms. Junior- and senior-level classes consist of three hours of academic classes, one leadership laboratory, and two physical fitness sessions per week. Students are obligated to serve at least four years of active duty as Air Force officers after college graduation.

Financial Assistance

The Air Force offers two- to three-year scholarships to qualified college students and four-year scholarships to qualified graduating high school seniors. Scholarships are available in all areas of study. Most AFROTC scholarships pay tuition up to \$15,000 per year, fees, and \$900 a year for textbooks. Scholarship winners also receive a \$300 to \$500 subsistence stipend per month. Engineering AFROTC scholarship winners qualify for Seattle University Incentive funds that would cover the remaining difference in the cost of tuition after the AFROTC scholarship, plus the cost of room and board. All other students awarded scholarships from any 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 check outafrotc.com, 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 for specific majors (which changes according to Air Force needs). The two-year program is open to students who have two years remaining until graduation in particular degree programs. Students in this program are required to attend a six-week field training course at an Air Force base during the summer preceding program entry. Students are paid during the six-week period. Upon return to campus, students pursue the professional officer course. Uniform, text books, and at least a \$400 monthly subsistence are provided. Partial incentive scholarships are available for students with a minimum 2.50 cumulative GPA. Students interested in this program must inquire via e-mail or call (206) 543-2360 to see if their particular degree program qualifies entry into the two-year program.

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

This class involves 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; and 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
Emphasis on basic leadership and management fundamentals, professional knowledge, and communicative skills required of an Air Force officer. Case studies used to examine leadership and management situations. An additional leadership laboratory (mandatory for cadets but not special students) provides leadership experiences, giving students the opportunity to apply learned principles. (autumn)	

AS 332 Aerospace Studies 300	3
Emphasis on advanced leadership and management fundamentals, professional knowledge, and communicative skills required of an Air Force officer. Case studies used to examine leadership and management situations. An additional leadership laboratory (mandatory for cadets but not special students) provides leadership experiences, giving students the opportunity to apply learned principles. (winter)	

AS 333 Aerospace Studies 300	3
Emphasis on leadership ethics, leadership and management fundamentals, professional knowledge, and communicative skills required of an Air Force officer. Case studies used to examine leadership and management situations. An additional leadership laboratory (mandatory for cadets but not special students) provides leadership experiences, giving students the opportunity to apply learned principles. (spring)	

- AS 431 Aerospace Studies 400**..... 3
Needs for national security, evolution of American defense strategy, policy, and organization; methods for managing conflict, alliances and regional security to preserve American interests. Arms control, terrorism, and current military issues; refinement of communicative skills. A one-hour leadership laboratory is also required for cadets, but not special students. (autumn)
- AS 432 Aerospace Studies 400**..... 3
World regional studies emphasis; Europe, East Asia, South Asia, Latin America, Africa, Middle East, and Russia; political, economic, cultural, environmental, and military elements of each region; impacts on world affairs and American interests; refinement of communicative skills. A one-hour leadership laboratory is also required for cadets, but not special students. (winter)
- AS 433 Aerospace Studies 400**..... 3
Preparation for active duty in the U.S. Air Force. The military as a profession, officership, the military justice system, current military issues; Air Force policies, procedures, and regulations; refinement of communicative skills. A one-hour leadership laboratory is also required for cadets, but not special students. (spring)

Naval Science (Navy ROTC)

Captain Richard D. Fitzpatrick, Professor and Chair of Naval Science Department, 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, NROTC provides prospective candidates the opportunity for either liberal or technical educational backgrounds.

General Program Requirements

Naval science classes are taught at the University of Washington in Condon Hall. Classes are open to all Seattle University students via UW Extension. 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 upon graduation will be commissioned as officers in the United States Navy Nurse Corps, after which they serve on active duty for a minimum of four years.

Scholarship Programs

Four- and two-year scholarships are offered for nursing program students only. Naval ROTC scholarships pay for 100 percent of tuition, fees, uniforms, a stipend for textbooks of \$250, plus \$250-400 per month tax-free subsistence payment depending on class year. 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.

Two-Year Program

The program is open to college students who will complete their sophomore year or third year in a five-year curriculum. The two-year scholarship covers the final two years of college. When accepted, students attend a six-week course of instruction at the Naval Science Institute (NSI) at Newport, Rhode Island, during the summer prior to their junior year 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

Students who do not have scholarships may join the Unit as College Program students. College Program students participate in the Battalion activities exactly as scholarship students but without scholarship benefits. During their last two years, College Program students continuing in the program receive a stipend in accordance with their class standing.

The College Program is designed for students who missed the opportunity to apply or were not selected for the Scholarship Program. College Program students are afforded the opportunity to compete for full three year or two year scholarships that are distributed annually based on merit. Scholarship or not, the College Program student is an important part of the Navy/Marine Officer Corps. Upon graduation, the College Program student has earned a guaranteed job and most importantly a limitless future as an officer in the Navy and Marine Corps.

The Navy furnishes all uniforms and textbooks used in naval science courses and a stipend for other course textbooks.

For more information: *depts.washington.edu/uwnrotc*

Naval Science Courses

Offered at the University of Washington, Seattle.

NROTC Nursing Students are required to complete NSCI 101, 102, 103, 201, 402, and 403.

- N SCI 101 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. (autumn)
- N SCI 102 History of US Sea Power I 3**
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. This course will focus on ancient navies of the Mediterranean to the U.S. Navy just prior to World War II. (winter)
- N SCI 103 History of US Sea Power II 3**
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. This course will focus on the U.S. Navy from World War II to current times. (spring)
- N SCI 201 Leadership and Management 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. Introduces the management process and the relationship of management functions to leadership. Stresses acceptance of a traditional deep sense of moral responsibility on the part of the aspiring leader. (autumn)

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- N SCI 202 Navigation I..... 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. (autumn)
- N SCI 203 Navigation II..... 3**
Basic theory and practice of celestial and electronic navigation. Relative motion theory and contact coordination practice in a multiple ship environment. (winter)
- N SCI 301 Naval Ship Systems I 3**
Study of fundamental principles of energy transfer and thermodynamics. Introduction to nuclear propulsion, gas turbines and auxiliary power systems. (spring)
- N SCI 302 Naval Ship Systems II 3**
Study of the ship characteristics, ship design, hydrodynamic forces, stability, damage control and shipboard electrical systems. Includes introduction to engineering documentation, electrical safety, and preventative maintenance and personnel qualifications. (spring)
- N SCI 303 Naval Weapon Systems..... 3**
Study of fundamental principles of sensor, tracking, weapon delivery of subsystems and current naval weapons. Includes techniques of linear analysis of ballistics and weapons and dynamics of basic components of weapon control systems. (autumn)
- N SCI 401 Naval Operations..... 3**
Introduction to naval operations, the employment of naval forces, naval tactics, formulation of operation plans and orders, employment of detection equipment, and meteorology. (spring)
- N SCI 402 Leadership and Ethics..... 3**
Study of leadership and ethics within a military context using applicable case studies. Examines the Law of Armed Conflict and Code of Conduct; the importance of integrity, moral courage, and ethical behavior to effective leadership; and the interrelationship between authority, responsibility, and accountability. (winter)
- N SCI 403 Naval Organization and Management 3**
Study of organization, systems, and techniques employed in the Navy for management of its human, material, and financial 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. (spring)

Marine Corps Option Courses

Offered at the University of Washington, Seattle.

N SCI 321 Evolution of Warfare I 3

Introduction to the art of war, the evolution of warfare from the earliest re-corded battles to the present day. (autumn)

N SCI 322 Evolution of Warfare II 3

Continuation of an introduction to the art of war, the evolution of warfare from the earliest recorded battles to the present day. Prerequisite: N SCI 321. (winter)

N SCI 323 USMC Leadership and Administration of Justice I 3

Concepts, objectives, characteristic qualities and practical techniques of leadership as exercised by the Marine Corps officer. Emphasizes leadership and management role of the junior officer in the Fleet Marine Forces. Intensive physical activities and outdoor projects to test an individual's physical and mental endurance. (spring)

N SCI 421 Amphibious Warfare I 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. (autumn)

N SCI 423 Leadership and Administration of Justice II 3

Continuation of concepts, objectives, characteristic qualities and practical techniques of leadership as exercised by the Marine Corps officer. Emphasizes leadership and management role of the junior officer in the Fleet Marine Forces. Intensive physical activities and outdoor projects to test an individual's physical and mental endurance. Not currently offered.

Modern Languages and Cultures

Victor Reinking, PhD, Chair

Objectives

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

Academic

Language study aims at broadening the scope of the student's intellectual development by affording both a facility in other languages and knowledge of other cultures. This end is achieved through the major programs in modern languages or double majors that couple a major or minor in a modern 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 languages are taught in their cultural context. Courses in Arabic, Mandarin Chinese, French, German, Italian, Japanese, and Spanish are taught in the vernacular.

Practical

For the university graduate with a specialization in a particular field and with proficiency in more than one language, openings exist in the many fields, including teaching, social work, transportation, military, foreign service, international aid organizations, international law, engineering, librarianship, foreign trade, and international business. In addition, many graduate programs in the United States require proficiency in a language other than English.

Degree Offered

Bachelor of Arts

NOTE: If a student's native language is a language offered at this University, the student may not receive a degree in that language. This applies to both majors and minors.

Majors Offered

French

French with Departmental Honors

Spanish

Minors Offered

Chinese

French

German

Italian

Japanese
Spanish

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 Modern 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 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 the 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.

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.

The Chinese language program currently offers a fall semester study abroad program from early September to mid-December at Suzhou University in the city of Suzhou which is about an hour by train from Shanghai. The program requires one-year study of Chinese at Seattle University or the equivalent.

The university has established reciprocal exchange programs with Karl-Franzens Universität in Graz, Austria and Sophia University in Tokyo, Japan. Courses are available in both English and the host language. Modern Language and Culture majors are expected to complete one year of German or Japanese language, respectively, prior to participation. Seattle University is a member of the Independent Liberal Arts Colleges Abroad (ILACA) consortium which offers semester-long intermediate and advanced study in Granada, Spain. Eligibility includes 6 quarters of university level Spanish language (or the equivalent) for fall semester and 7 quarters (or the equivalent) for spring semester participation. Students from any major may apply for these exchange or ILACA programs, which allow continued enrollment and financial aid benefits at Seattle University.

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.

For a complete list of study abroad opportunities available to Modern Language and Culture students but offered by other departments, see the Education Abroad website (seattleu.edu/studyabroad).

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 and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above	.....	5
Lab Science	.....	5
Fine Arts (one approved 5 credit course; see course descriptions)	.....	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 to 5

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

NOTE: If your native language is French, you may not receive a degree in French.

55 credits in French, including:

FREN 215	French Language IV	5
FREN 225	French Language V	5
FREN 235	French Language VI	5
FREN	Study Abroad (300 level)	25
FREN	Electives (400 level)	15

NOTE: 1. The French Major requires a learning program in a French-speaking country. An acceptable study-abroad program will normally encompass a minimum of 25 quarter credits or 15 semester credits of course work in French. 2. Several French 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.

Bachelor of Arts

Major in French with Departmental Honors

The modern languages department offers capable and highly motivated students two options to pursue a major in French with departmental honors: (a) an individual research/thesis project under the direction of a French faculty member, or (b) an advanced French language diploma followed by completion of a service-learning program in a French-speaking country through the university's International Development Internship Program (IDIP).

Application to the major: To be accepted to either program, students must have a 3.50 or higher cumulative grade point average and major grade point average of at least 3.50 in their previous French courses. Interested students should apply to the French Honors Coordinator in spring quarter of the junior year or fall quarter of the senior year. Upon acceptance, a change of major degree, or specialization form will be submitted to the Office of the Registrar.

Completion of the major: Option (a): Research project and honors thesis. During the senior year, departmental honors students who opt for the research/thesis option will complete the departmental honors sequence FREN 477 Departmental Honors Directed Reading (5 credits) and FREN 479 Departmental Honors Thesis (5 credits). The focus of this option will be a substantial thesis written under the direction of a department faculty member. The thesis will be subject to approval by the department faculty and will be presented orally in a setting to be determined by the thesis supervisor. Students who commit to this option must complete both courses with a grade of A or A-.

Option (b): French language diploma and service learning. The departmental honors language/service option will require that students pass the *Diplôme Avancé de Langue Française* (DALF) examination as part of their study abroad requirement for the major in French. (The DALF examination is an internationally recognized proficiency test for advanced students in French.) Upon their return to Seattle University, these departmental honors candidates will apply for and be accepted to the IDIP program and do their field internship in a French-speaking country. After successful completion of the IDIP field internship (INIP 401), and the International Internship Seminar II (INIP 402), students will give an oral presentation, in French, describing their work and experience abroad and summarizing their INIP 402 thesis. In addition, students will write a 10-page summary, in French, of their INIP 402 research project and will include an annotated bibliography, also in French. Candidates for honors in French must receive a grade of A or A- in INIP 402. See page 523 of the *Bulletin of Information* for further details of the IDIP 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 and a major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature.....	5
MATH 107 or 110 or above		5
Lab Science		5
Fine Arts (one approved 5 credit course; see course descriptions).....		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 to 5

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

NOTE: If your native language is Spanish, you may not receive a degree in Spanish

55 credits in Spanish, including:

SPAN 215	Spanish Language IV.....	5
SPAN 225	Spanish Language V	5
SPAN 235	Spanish Language VI.....	5
SPAN	Study Abroad (300 level)	25
SPAN	Electives (400 level).....	15

NOTE: 1. This major requires a learning program in a Spanish-speaking country. An acceptable study abroad program will normally encompass a minimum of 25 quarter credits or 15 semester credits of work in Spanish. 2. Several Spanish 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 Modern Languages

NOTE: If a student's native language is a language offered at this university, the student may not receive a minor in that language.

French

To earn a minor in French, students must complete 35 credits in French including:

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	Study Abroad (300 level)	15

The Minor in French requires a learning program in a French speaking country for the equivalent of 15 quarter credits.

Spanish

To earn a minor in Spanish, students must complete 35 credits in Spanish including:

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	Study Abroad (300 level)	15

The Minor in Spanish requires a learning program in a Spanish speaking country for the equivalent of 15 quarter credits.

Chinese, German, Italian, or Japanese

To earn a minor in modern languages (either Chinese, German, Italian, or Japanese students must complete 35 credits with a minimum 2.00 GPA 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	Chinese, German, Japanese, or Italian Culture and Society	5

NOTE: Students who waive elementary language courses may meet the 35 credit minor requirement by substituting upper-division courses in the language of the minor or approved courses in other disciplines that relate to their minor language.

See policy for minors (84-1) for more information.

Language Courses

In order to receive full credit for courses in a 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. Note: Credit will not be granted for 100 or 200 level courses in a student's native language.

Arabic Courses

ARAB 115	Arabic Language I.....	5
ARAB 125	Arabic Language II.....	5
ARAB 135	Arabic Language III	5
ARAB 215	Arabic Language IV	5
ARAB 225	Arabic Language V.....	5
ARAB 235	Arabic Language VI.....	5

An intuitive approach to understanding, speaking, reading, and writing Modern Standard Arabic. These courses constitute a systematic, programmed study of the Arabic language and cultures.

ARAB 296	Directed Study.....	1 to 5
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Chinese Courses

CHIN 115	Chinese Language I	5
CHIN 125	Chinese Language II	5
CHIN 135	Chinese Language III	5
CHIN 215	Chinese Language IV	5
CHIN 225	Chinese Language V	5
CHIN 235	Chinese Language VI	5

An integrated approach to understanding, speaking, reading, and writing in Mandarin Chinese and culture. These courses constitute a systematic study of Mandarin in the Romanized Pinyin and Chinese character systems.

CHIN 291-293	Special Topics	1 to 5
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CHIN 296	Directed Study.....	1 to 5
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CHIN 315	Chinese Culture and Civilization	5
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An introduction to Chinese culture and civilization with emphasis on the impact of the cultural traditions on the Chinese contemporary lifestyles and cross-cultural comparisons.

CHIN 396	Chinese: Directed Study	1 to 5
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French Courses

FREN 115	French Language I	5
FREN 125	French Language II	5

FREN 135	French Language III	5
FREN 200-205	Variable Topics	1 to 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 291-293	Special Topics	1 to 5
FREN 296	Directed Study	1 to 5
FREN 300-305	Variable 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 391-393	Special Topics	1 to 5
FREN 396	Directed Study	1 to 5
FREN 415	French Literature and Culture, 19th Century.....	3
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.....	3
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.....	3
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.....	3
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	3
An overview of the various methods and approaches currently being used to teach French.		
FREN 452	Development of Modern French.....	3
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 460	Québécois Literature and Culture	3
A survey of Québécois literature that examines the social and intellectual trends in modern Quebec.		
FREN 463	Topics in Contemporary French Culture	3
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 465	French and Francophone Cinema	3
An introduction to the history and development of French-language cinema, with an emphasis on major directors and cinematic movements.		
FREN 470	Francophone African and Caribbean Literature and Culture.....	3
Contemporary writing in French by North and West African and Caribbean authors. Writers studied may include Léopold Sédar Senghor, Mariama Bâ, Frantz Fanon, Aimé Césaire, Assia Djebar, Abdellatif Laâbi, and Birago Diop.		
FREN 477	French Honors Directed Reading	5
FREN 479	French Honors Thesis.....	5
FREN 480-483	Interdisciplinary Core Course	3 to 5
Title and content vary.		
FREN 490	Senior Synthesis	3
FREN 491-493	Special Topics	1 to 5
FREN 496	Independent Study	1 to 5

German Courses

GERM 115	German Language I	5
GERM 125	German Language II	5
GERM 135	German Language III	5
GERM 200-205	Variable Topics	1 to 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 291-293	Special Topics.....	1 to 5
GERM 296	Directed Study	1 to 5
GERM 300-305	Variable 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 391-393 Special Topics.....	1 to 5
GERM 396 Directed Study.....	2 to 5
GERM 480 Interdisciplinary Core Course	3 to 5
Title and content vary.	
GERM 491-493 Special Topics	1 to 5
GERM 496 Independent Study	1 to 5

Italian Courses

ITAL 115 Italian Language I.....	5
ITAL 125 Italian Language II.....	5
ITAL 135 Italian Language III.....	5
ITAL 215 Italian Language IV	5
ITAL 225 Italian Language V.....	5
ITAL 235 Italian Language VI.....	5
An intuitive approach to understanding, speaking, reading and writing Italian. All of the language courses are taught in Italian.	
ITAL 296 Directed Study.....	1 to 5
ITAL 315 Italian Culture & Civilization	5
An introduction to Italian culture and civilization with emphasis on the basic traditions and structures of Italian society.	
ITAL 396 Directed Study.....	1 to 5
ITAL 496 Independent Study	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 291-293 Special Topics	1 to 5
JPAN 296 Directed Study.....	2 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.	
JPAN 396 Directed Study.....	1 to 5
JPAN 496 Independent Study	1 to 5

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. Fulfills College of Arts and Sciences second language requirement		
LATN 291-293	Special Topics	1 to 5
LATN 296	Directed Study.....	1 to 5
LATN 396	Directed Study.....	1 to 5
LATN 496	Independent Study	1 to 5

Spanish Courses

SPAN 115	Spanish Language I	5
SPAN 125	Spanish Language II	5
SPAN 135	Spanish Language III	5
SPAN 200-205	Variable Topics.....	1 to 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 291-293	Special Topics	1 to 5
SPAN 296	Directed Study.....	1 to 5
SPAN 300-305	Variable Topics.....	1 to 5
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
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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 391-393	Special Topics	1 to 5
SPAN 396	Directed Study.....	2 to 5
SPAN 410	Cervantes.....	5

A study of the life and works of Miguel de Cervantes with special attention to *Don Quixote 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 Usler 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 480-483	Interdisciplinary Core Course	3 to 5
Title and content vary.		
SPAN 491-493	Special Topics	1 to 5
SPAN 496	Independent Study	1 to 5

Special Topic and Independent Study Language Courses

MDLG 191-193	Special Topics	1 to 5
MDLG 291-293	Special Topics	1 to 5
MDLG 296	Directed Study	1 to 5
MDLG 391-393	Special Topics	1 to 5
MDLG 396	Directed Study	1 to 5
MDLG 480-483	Interdisciplinary Core Course	3 to 5
Title and content vary.		
MDLG 491-493	Special Topics	1 to 5
MDLG 496	Independent Study	1 to 5
MDLG 497	Directed Reading	1 to 5
MDLG 498	Directed Research	1 to 5

Nonprofit Leadership Minor

Michael Bisesi, EdD, Director

Danielle Potter, Deputy Coordinator

Objectives

The nonprofit sector plays an essential role in providing important public services and in working to achieve social justice. The sector continues to grow, and the role of nonprofit agencies continues to expand in civil society. There is a rise in volunteerism, but the supply of effective, trained leadership in nonprofit agencies has not kept pace with demand. The future strength of the sector is dependent on recruiting high quality individuals who will make nonprofit work a conscious career choice.

The nonprofit leadership minor is complementary to many majors, including business, criminal justice, environmental studies, liberal studies, nursing, psychology, public affairs, social work, sociology, and theology and religious studies, among others. Students interested in the nonprofit leadership minor are encouraged to meet with the deputy coordinator or director to discuss their interest and career goals and to plan their course of study.

Minor in Nonprofit Leadership

In order to earn a Minor in Nonprofit Leadership, students must complete 30 credits, with a cumulative grade point average of 2.00, from the following:

Required Course:

NPLR 315	Introduction to the Nonprofit Sector.....	5
Choose a minimum of three courses from the following:.....		
NPLR 435	Nonprofit Planning and Evaluation	15 to 25
NPLR 436	Nonprofit Financial Management	
NPLR 437	Managing Nonprofit Volunteers	
NPLR 438	Working with Nonprofit Staff	
NPLR 443	Nonprofit Fundraising	
NPLR 444	Beyond Grantmaking	
NPLR 448	Nonprofit Business Enterprise	
NPLR 449	Community Planning and Leadership	
NPLR 450	Nonprofit-Business-Government Partnerships	
NPLR 455	Strategic Planning for Public and Nonprofit Organizations	
NPLR 464	Building Effective Teams	
NPLR 491-493	Special Topics (1 to 5)	
NPLR 494	Practicum (1 to 5)	
NPLR 495	Internship (1 to 5)	
NPLR 496	Independent Study (1 to 5)	
NPLR 497	Directed Reading (1 to 5)	
NPLR 498	Directed Research (1 to 5)	

Choose no more than two of the following optional courses:.....0 to 10

College of Arts and Sciences

CMJR 490	Senior Synthesis: Advocacy and Social Change
CRJS 210	Law, Society, and Justice
CISS 120	Poverty in America
ISSC 481	To Feed the World
PUBA 353	Housing Design and the Sustainable Community
SOCW 303	History of Social Welfare Policy
SOCW 304	Contemporary Social Policy Services
THRS 321	God, Money, and Politics

See policy for minors (84-1) for more information

Courses selected for the minor in Nonprofit Leadership may include those which fulfill university core or elective requirements and those taken to fulfill a major.

Nonprofit Leadership Courses

NPLR 315 Introduction to the Nonprofit sector..... 5

This course offers an introduction to the nonprofit sector including: history, current issues and opportunities and challenges. The course will also explore the basic purpose, organizing principles and goals of nonprofit organizations.

NPLR 396 Directed Study..... 1 to 5

NPLR 435 Nonprofit Planning and Evaluation 5

Principles of strategic, long-range, and tactical planning; linking evaluation to planning and determining program effectiveness.

NPLR 436 Nonprofit Financial Management..... 5

Planning, controlling, and reporting financial matters; budgeting; internal controls and audit issues; stewardship.

NPLR 437 Managing Nonprofit Volunteers 5

Recruiting, organizing, motivating, and retaining volunteers to provide governance, committee, and other support.

NPLR 438 Working with Nonprofit Staff..... 5

Nonprofit aspects of personnel recruitment, management, motivation, and evaluation, including policies, procedures, laws, regulations, and best practices.

NPLR 443 Nonprofit Fundraising 5

Managing resource development and fundraising efforts in the nonprofit setting; techniques and strategies for cultivating and soliciting potential sources of financial support.

NPLR 444 Beyond Grantmaking..... 3 to 5

Planning and preparing proposals for philanthropic support of nonprofit programs and activities. Cross-listed with PUBA 466.

NPLR 448	Nonprofit Business Enterprise.....	5
An examination of nonprofit entrepreneurship and social purpose business activity to enhance communities while operating with financial bottom-line.		
NPLR 449	Community Planning and Leadership.....	5
Planning and implementation issues for community development, including citizen participation and the role of nonprofit organizations.		
NPLR 450	Nonprofit-Business-Government Partnerships.....	5
An examination of collaborative efforts to address public issues. Prerequisite: NPLR 315.		
NPLR 455	Strategic Planning for Public and Nonprofit Organizations.....	3
Understanding the function of strategic, long range and tactical planning, developing the framework and tools to design a variety of planning models, motivating and managing stakeholder involvement with different planning initiatives, integrating learning organization and systems principles, creating vision mission, values, strategic thinking.		
NPLR 456	Finance for the Non-Financial Manager and Nonprofit Organizations.....	3
This course is focused on a pragmatic application of accounting, economics, and social psychology within an organizational setting. Students gain empowerment by obtaining the specific skills and the context for nonprofit managers to develop financial literacy and basic competency. At the completion of the course, students should be able to formulate relevant management control and financial questions for organizations and then implement strategies to obtain appropriate outcomes and answers.		
NPLR 464	Building Effective Teams	3 to 5
Focuses on how teams are used in both public and nonprofit organizations. Students explore the critical steps and roles that team members and leaders take to achieve excellence in team performance. Issues such as roles and responsibilities of team members and team leaders are addressed, in addition to determining team strengths and weaknesses, building hands-on skills in completing a team-selected case analysis and presentation, and creating and maintaining the conditions that promote team effectiveness. Cross-listed with PUBA 464.		
NPLR 480-483	Interdisciplinary Core Course	3 to 5
Title and content vary.		
NPLR 491-493	Special Topics	1 to 5
NPLR 494	Practicum.....	1 to 5
NPLR 495	Internship	1 to 5
NPLR 496	Independent Study	1 to 5
NPLR 497	Directed Reading.....	1 to 5
NPLR 498	Directed Research.....	1 to 5

Philosophy

Burt Hopkins, 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

Majors Offered

Philosophy

Philosophy with Departmental Honors

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 and major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above	.....	5
Lab Science	.....	5
Fine Arts (one approved 5 credit course; see course descriptions)	.....	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 to 5

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill philosophy major requirements.

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

III. Major Requirements

60 credits in philosophy, including:

A. Foundations

PHIL 220*	Philosophy of the Human Person	5
PHIL 260	Introduction to Logic	5

B. Ethics

PHIL 345, 351, 352, 353, 354, or 358	5
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C. History and Traditions

PHIL 301	Ancient Philosophy	5
PHIL 302	Medieval Philosophy	5
PHIL 303	Modern Philosophy	5
PHIL 485	Major Figures in the Traditions	5

D. Electives

PHIL 250 or Upper-Division (300-400 level) Electives	10
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E. Specialization

Choose three courses within one of the following specializations:

Specialization in Continental Philosophy	15
PHIL 361	Introduction to Phenomenology
PHIL 362	Existentialism
PHIL 363	Hermeneutics
PHIL 365	Critiques of Western Metaphysics
PHIL 462	Problems in Classical Phenomenology
PHIL 463	Problems in Contemporary Phenomenology
PHIL 464	Topics in Post-Modern Philosophy
Specialization in Logic, Science, and Analytic Philosophy.	15
PHIL 333	Philosophy of Science
PHIL 334	Nature and Cosmos
PHIL 336	Philosophical Impact of Scientific Revolutions
PHIL 338	Analytic Philosophy
PHIL 430	Advanced Logic
PHIL 437	Philosophy of Mind
PHIL 438	Philosophy of Language
Specialization in Critical and Global Perspectives	15
PHIL 341	Buddhist Philosophy
PHIL 343	Philosophy of Race, Class, and Gender
PHIL 347	African Philosophy
PHIL 348	Africana Philosophy
PHIL 349	Topics in Comparative Philosophy
PHIL 373	Gender and Social Reality
PHIL 374	Feminist Moral Theory
PHIL 376	Philosophy of Peace and War
PHIL 378	Environmental Philosophy
PHIL 444	Topics in Feminist Philosophy
PHIL 445	Philosophy in a Global Context
Specialization in Ethics, Law, and Justice	15
PHIL 322	Catholic Social Philosophy
PHIL 326	Philosophy of Law
PHIL 327	Social and Political Philosophy
PHIL 343	Philosophy of Race, Class, and Gender
PHIL 374	Feminist Moral Theory
PHIL 376	Philosophy of Peace and War
PHIL 378	Environmental Philosophy
PHIL 429	Topics in Ethics, Law and Justice
PHIL 495	Internship in Ethics, Law, and Justice
Individualized Specialization.....	15
Arranged with student's advisor and approved by the department chair	

***NOTE:** Only students who complete PHIL 110 at Seattle University are eligible to take PHIL 220. Students who satisfy PHIL 110 with a transfer course or who receive a waiver in PHIL 110 will substitute PHIL 210 for PHIL 220.

Several philosophy 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.

Bachelor of Arts

Major in Philosophy with Departmental Honors

The philosophy departmental honors major offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have a cumulative and major/program grade point average of 3.5. Students must be recommended to the program by a philosophy faculty member who will take responsibility for directing that student's honors thesis, and they must be granted permission to participate in the program by the department chairperson. Interested students should apply in spring quarter of the junior year or fall quarter of the senior year. Upon acceptance, a Change of Major, Degree or Specialization form is submitted to the Office of the Registrar.

Completion of the major: During senior year, departmental honors students will take a minimum of 10 credits of designated department honors courses (PHIL 477 Philosophy Honors Directed Reading, PHIL 478 Philosophy Honors Directed Study, and PHIL 479 Philosophy Honors Thesis Supervision). Students in the departmental honors program complete 10 credits of course work above the norm for philosophy majors (for a total of 70 credits in philosophy) and write a 25-40 page thesis under the direction of a faculty member. The thesis will be presented publicly at a defense before members of the faculty. In order to complete the requirements for departmental honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50. In addition, the grade received for PHIL 479 Philosophy Honors Thesis Supervision, must be an A or A-. In addition to the bachelor of arts major in philosophy requirements, the honors major also includes:

10 credits in departmental honors, including:

PHIL 477	Philosophy Honors Directed Reading	3
PHIL 478	Philosophy Honors Directed Study	2
PHIL 479	Philosophy Honors Thesis Supervision.....	5

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

NOTE: The department can assist students to design a special track in the philosophy minor that complements the student's major field.

See minor policy (84-1) for more information.

Policy for University Honors Program Students

University Honors Program students who have successfully completed HONR courses listed below are exempted from PHIL 220 and ethics, but need an additional 35 credits to complete the philosophy major: PHIL 260, 301, 485 and 20 credits of approved electives. Those wishing to complete the philosophy major with departmental honors will also complete PHIL 477, 478, and 479 for a total of 40 additional credits. Students who wish to earn a philosophy minor, need an additional 10 elective philosophy credits.

They are credited with the following equivalents:

HONR 101 = PHIL 210

HONR 102/3 = PHIL 302

HONR 201 = PHIL 303

HONR 202 = PHIL 371

HONR 203 = PHIL 365

Philosophy Courses

PHIL 110	Introduction to Philosophy and Critical Thinking.....	5
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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. ENGL 110 strongly encouraged.

PHIL 210	Philosophy of the Human Person (Bridge).....	5
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This course is a modification of PHIL 220 for those transfer students who have satisfied PHIL 110 by a transfer course or who are waived from 110. 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
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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 at Seattle University.

PHIL 250	Problems and Methods of Philosophy.....	5
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Discussion of the nature, purpose, methodologies and branches of philosophy. Overview of representative major current controversies in philosophy along with their historical context. Recommended for philosophy majors and minors. Prerequisite: PHIL 210 or 220.

PHIL 260	Introduction to Logic.....	5
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Topics include basic concepts, traditional categorial logic, propositional logic, deductive and inductive fallacies, and an aspect of inductive logic, e.g., probability.

- PHIL 296 Directed Study** 1 to 5
- PHIL 301 Ancient Philosophy** 5
A study of ancient Greek philosophy, especially the thought of Socrates, Plato and Aristotle. Prerequisite: PHIL 210 or 220.
- PHIL 302 Medieval Philosophy** 5
A study of medieval thought, especially the Christian philosophies of St. Augustine and St. Thomas Aquinas. Prerequisite: PHIL 301.
- PHIL 303 Modern Philosophy** 5
A study of major figures of the 17th and 18th centuries, such as Descartes, Leibniz, Hobbes, Locke, Berkeley, and Hume. Prerequisite: PHIL 301 and 302.
- 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 316 Philosophy of Religion** 5
An examination of attempts to argue for or against the existence of God. The divine attributes and the problem of evil are also treated. Thinkers from several traditions are studied. Prerequisite: PHIL 210 or 220.
- PHIL 317 Philosophy of Art** 5
Philosophical reflection on the nature of art and its reality. Exploration of philosophical themes in artistic works and movements. Consideration of the relationship of meaning in art to other forms of meaning. Prerequisite: PHIL 210 or 220.
- PHIL 318 Philosophy of Film** 5
Examination of topics in the philosophy of film, including the question of how to interpret a film and inquiry into the ways that feature or documentary films raise and respond to important philosophical questions. Prerequisite: PHIL 210 or 220.
- PHIL 322 Catholic Social Philosophy** 5
Critical reflection on the philosophical foundations of Catholic social philosophy from Pope Leo XIII's *Rerum Novarum* to the present, including contemporary philosophical views of the nature of person and community. 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 327 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 333 Philosophy of Science..... 5**
 An introduction to different views about the nature and goals of the natural sciences and to issues raised by these views, including the status of scientific laws, theory formation and testing, confirmation vs. falsification, realism vs. instrumentalism, indicators of scientific progress, and the social dimension of science. Prerequisite: PHIL 210 or 220.
- PHIL 334 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 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 338 Analytic Philosophy 5**
 A study of major figures in 20th century analytic philosophy, such as Frege, Russell, Wittgenstein, Quine, and Kripke. Prerequisite: PHIL 210 or 220.
- PHIL 341 Buddhist Philosophy..... 5**
 Introduction to Buddhist dharma and its subsequent philosophical traditions: Theravada, Mahayana (especially Zen), and Vajrayana. Prerequisite: PHIL 210 or 220.
- PHIL 343 Philosophy of Race, Class, and Gender..... 5**
 A broad examination of the intersection of race, class, and gender, including particular discussion of issues of identity and difference and social justice. Prerequisite: PHIL 210 or 220.
- PHIL 345 Ethics 5**
 General theory of moral behavior, ethics as a rational discipline, 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 347 African Philosophy..... 5**
 A seminar that looks at how the perennial questions of philosophy have been apprehended and answered in traditions that are domiciled in the African continent. The course may focus on any one or a combination of themes in the traditional subdivisions of philosophy from a historical perspective or from a problems perspective. Prerequisite: PHIL 210 or 220.

- PHIL 348 Africana Philosophy..... 5**
A seminar that looks at the philosophical heritage of African Americans and, generally, other Diasporic Africans. This can be done from the point of view of the history of philosophy or that of selected topics built on a thematic approach. Prerequisite: PHIL 210 or 220.
- PHIL 349 Topics in Comparative Philosophy..... 5**
Possible topics include Classical Indian Philosophy, Classical Chinese Philosophy, and the Kyoto School. 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.
- 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.
- PHIL 361 Introduction to Phenomenology 5**
Survey of the basic concepts of phenomenology, such as intentionality, reduction, reflective and hermeneutic methods, and the phenomenology of perception. 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, and Ricoeur. Prerequisite: PHIL 210 or 220.

- PHIL 365 Critiques of Western Metaphysics 5**
 An examination of selected genealogical critiques of the basic suppositions and values of Western metaphysics. 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 373 Gender and Social Reality 5**
 An exploration of a variety of topics concerning feminism, including the oppression of women and the politics of gender in contemporary society. Prerequisite: PHIL 210 or 220.
- PHIL 374 Feminist Moral Theory 5**
 An examination of a range of distinctively feminine and feminist ethical perspectives and an exploration of feminist criticisms of traditional moral theories. Does not satisfy core ethics requirement. Prerequisite: PHIL 345.
- PHIL 375 Catholic Feminist Thought 5**
 Critical examination of contemporary themes in feminist Catholic thought, e.g., the role of the body, the relation of the individual to the state, language, reason, and the life of faith. Prerequisite: PHIL 345.
- PHIL 376 Philosophy of Peace and War 5**
 An examination of three theories regarding the morality of war: just war theory, pacifism, and realpolitik. Prerequisite: PHIL 210 or 220.
- PHIL 377 American Philosophy 5**
 Offers 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 378 Environmental Philosophy 5**
 An examination of the two key debates: anthropocentrism (human-centered view of the world) vs. non-anthropocentrism, and individualism vs. ecological holism. Several specific environmental problems are treated, including animal rights issues. Satisfies the core interdisciplinary requirement. Prerequisite: PHIL 210 or 220.
- PHIL 391-393 Special Topics 1 to 5**
- PHIL 396 Directed Study 1 to 5**
- PHIL 429 Topics in Ethics, Law, and Justice 5**
 Focused study of a significant topic in contemporary moral, legal, or political theory, for example, social contract theory, virtue ethics, rights, the role of emotions in morality. Does not satisfy core ethics requirement. Prerequisite: PHIL 345.
- PHIL 430 Advanced Logic 5**
 An introduction to advanced topics in symbolic logic, including study of predicate logic, modal logic, and set theory, as well as reflection on the nature of formal systems and the significance of various logical paradoxes. Prerequisite: PHIL 260.

- PHIL 437 Philosophy of Mind..... 5**
An investigation of central topics in contemporary analytic philosophy of mind focusing on the mind-body problem and proposed solutions to it, such as dualism, identity theory, functionalism, and the computational theory of mind. Prerequisite: PHIL 210 or 220.
- PHIL 438 Philosophy of Language 5**
An investigation of central topics in contemporary analytic philosophy of language, such as theories of truth, meaning, and reference, speech act theory, theories of interpretation and translation, and the relationship between language, thought, and reality. Prerequisite: PHIL 210 or 220.
- PHIL 444 Topics in Feminist Philosophy..... 5**
An in-depth examination of feminist thought and methodology from a variety of perspectives, including liberal, radical, Marxist, multicultural, psychoanalytic, and post-modern, in relation to a particular topic, e.g., sexual difference, embodiment. Prerequisite: PHIL 210 or 220.
- PHIL 445 Philosophy in a Global Context 5**
A seminar for discussion of topics selected from ongoing issues in the world considered from many perspectives culled from different thinkers working in different traditions from different parts of the globe. Prerequisite: PHIL 210 or 220 and one 300- or 400-level course in philosophy other than PHIL 345.
- PHIL 462 Problems in Classical Phenomenology 5**
An examination of selected problems in 20th Century phenomenology, such as psychologism, method and ontology, the hermeneutic critique of consciousness, phenomenology of life, and the nature of phenomenological time. Prerequisite: PHIL 210 or 220.
- PHIL 463 Problems in Contemporary Phenomenology..... 5**
An examination of selected problems in contemporary phenomenology, such as the lived-body, the metaphysics of presence, the other, gender, and the given. Prerequisite: PHIL 210 or 220.
- PHIL 464 Topics in Post-Modern Philosophy..... 5**
This course examines selected topics in post-modern philosophy, such as the nature of language, genealogy of modernity, deconstruction, new vitalism, and the idea of difference. Prerequisite: PHIL 210 or 220.
- PHIL 477 Philosophy Honors Directed Reading 3**
Directed reading for students in the philosophy department honors major. Prerequisite: approval of department chair.
- PHIL 478 Philosophy Honors Directed Study 2**
Directed study for students in the philosophy department honors major. Prerequisite: approval of department chair.
- PHIL 479 Philosophy Honors Thesis Supervision 5**
Thesis supervision for students in the philosophy department honors major. Prerequisite: approval of department chair.

PHIL 480-483	Interdisciplinary Core Course	3 to 5
Title and content may change each term. Prerequisite: PHIL 210 or 220.		
PHIL 485	Major Figures in the Traditions.....	5
Intensive, seminar examination of the work of a major philosopher. Prerequisite: PHIL 210 or 220.		
PHIL 490	Senior Synthesis	3 to 5
PHIL 491-493	Special Topics	1 to 5
PHIL 495	Internship in Ethics, Law, and Justice	1 to 5
Affords students the opportunity to develop and apply their philosophical competence through volunteer experience with appropriate non-profit, business, or governmental agency or institution. Requires approval of philosophy department chair. Prerequisite: PHIL 345.		
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 chair of the department. Prerequisite: senior standing.		

Political Science

Connie Anthony, 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 analysis 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, social and political organizations, international relations, business, and education, and for graduate study or law school.

Degrees Offered

Bachelor of Arts

Majors Offered

Political Science

Political Science with Departmental Honors

Minors Offered

American Law and Politics

Global Politics

General Program Requirements

Students in political science 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. Macroeconomics 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. Advisors may recommend electives in public affairs, business, sociology, philosophy, and writing. Students who plan to attend law school should consult the prelaw section of this *Bulletin* and see a prelaw advisor.

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 and major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5

ENGL 120	Introduction to Literature.....	5
MATH 107 or 110 or above	.....	5
Lab Science	.....	5
Fine Arts (one approved 5 credit course; see course descriptions).....		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 (can be fulfilled by designated PLSC course).....		3 to 5
Senior Synthesis (can be fulfilled by designated PLSC course).....		3 to 5

*Included in major GPA.

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern 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

60 credits in political science, including:

PLSC 200	Introduction to American Politics.....	5
PLSC 230	Comparing Nations.....	5
PLSC 250	Introduction to Political Theory.....	5
PLSC 260	Introduction to International Politics.....	5
American Politics (PLSC 300, 301, 304, 305, 309, 312, 410, 483).....		5
Comparative Politics (PLSC 332, 334, 335, 337, 338, 432).....		5
International Politics (PLSC 361, 362, 363, 364, 365, 366, 464, 469, 485).....		5
Political Theory and Law (PLSC 321, 322, 325, 352, 355, 356, 459).....		5
PLSC	Electives.....	20

NOTE: 1. Transfer students are required to take at least one course at Seattle University from each of the four fields: American politics, comparative politics, international politics, and political theory and law. 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.

Bachelor of Arts

Major in Political Science with Departmental Honors

The political science departmental honors major offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have a cumulative and major/program grade point average of 3.50. Interested students should apply in spring quarter of the junior year or fall quarter of the senior year. Upon acceptance, a Change of Major, Degree or Specialization form is submitted to the Office of the Registrar.

Completion of the major: During senior year, honors students will complete, over multiple quarters, a ten-credit departmental honors thesis (PLSC 479). Students in the departmental honors program complete 5 credits of course work above the norm for political science majors (for a total of 65 credits in political science) and write a substantial thesis under the direction of a faculty member. The thesis will be graded by departmental faculty. In order to complete the requirements for departmental honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50. In addition, the grade received for PLSC 479 Departmental Honors Thesis Supervision must be an A or A-. In addition to the bachelor of arts major in political science requirements, the honors major also includes:

Ten credits in departmental honors, including:

PLSC 479	Departmental Honors Thesis Supervision	
	(credits may vary per quarter)	1 to 10

Minor in American Law and Politics

In order to earn a minor in American law and politics students must complete 30 credits in political science, including:

PLSC 200	Introduction to American Politics	5
PLSC 250	Introduction to Political Theory	5
Choose one of the following two courses:		5
PLSC 321	American Constitutional Law	
PLSC 322	Civil Liberties in American Constitutional Law	
Choose three of the following courses:		15
PLSC 300, 301, 304, 305, 309, 312, 325, 352, 355, 356, 410, 459, 483		

Minor in Global Politics

In order to earn a minor in Global Politics students must complete 30 credits in political science, including:

PLSC 230	Comparing Nations	5
PLSC 260	Introduction to International Politics	5

Choose four of the following courses:..... 20

PLSC 332, 334, 335, 337, 338, 361, 362, 363, 364, 365, 366, 432, 464, 469 485

See policy for minors (84-1) for more information.

Political Science Courses

Courses that fulfill field requirements for the political science major are designated by the following code:

A	American Politics
C	Comparative Politics
I	International Politics
TL	Political Theory and Law

PLSC 120	Citizenship	5
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Exploration of what it means to be a citizen in a democratic community. Rights and responsibilities. Issues of justice and authority. Global, national, and local levels of governance. Core Option: Social Science I.

PLSC 200	Introduction to American Politics	5
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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. Core Option: Social Science II.

PLSC 230	Comparing Nations	5
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Political diversity in contemporary nations of Europe, Asia, and Latin America. Structures of power and the social effects of public policies. Applies theories of political economy and political sociology. Core Option: Social Science II.

PLSC 250	Introduction to Political Theory	5
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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. Core Option: Social Science II.

PLSC 260	Introduction to International Politics	5
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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. Core Option: Social Science II.

PLSC 296	Directed Study	1 to 5
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- 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 Evolving Presidency**..... 5
An exploration of the factors that explain presidential success or failure. Personality and presidential performance. The crisis presidency. Cross-listed with HIST 345. 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 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 312 Latino Politics** 5
Impact of migration from the Americas and the Caribbean on Latino community formation. Urban destinations and political ramifications. The politics of pan-ethnic Latino identity. Implications for the larger society and national politics.
- PLSC 320 Legal Theory** 5
Modern legal theories and the answers they provide to questions such as the nature of law, the relationship between law and morality, the interpretation of legal texts, the functions of law and legal institutions in economic and political systems, and the role of law in the pursuit of ideals such as social justice.
- PLSC 321 American Constitutional Law** 5
Philosophy and development of the United States Constitution as reflected in Supreme Court decisions. Emphasis on equal protection, separation of powers, federalism, regulation of commerce, and the role of the court. TL.
- PLSC 322 Civil Liberties in American Constitutional Law** 5
The legal, political, and philosophic dimensions of pivotal constitutional cases, with special focus on the "incorporation" or "nationalization" of the Bill of Rights, due process, right of privacy, and freedom speech and expression. PLSC 321 is NOT a prerequisite. TL.
- PLSC 325 Race and the Law** 5
State and federal laws and court decisions that shape ethnic minority rights, gender rights, and community environmental rights. The class features presentations by judicial officials and rights attorneys, as well as student reports on contemporary controversies. TL.

- PLSC 326 Law and Gender..... 5**
Feminist studies of law and its relationship to legal reform. Sexuality equality difference; marriage, sexuality, and the state; reproductive rights; transgender equality; and violence in 'private' and 'public' spheres.
- PLSC 327 The Politics of Rights 5**
What is a right? Why are some rights respected and others ignored? Who must recognize rights in order for them to exist? This course considers these questions primarily within the US political framework, with some attention to global discussion of human rights.
- 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 334 Chinese Politics..... 5**
Pragmatism and ideology in transforming China's economy and government. Cultural, social, and demographic influences. Class, ethnicity, religion, and gender as foci of political conflict. China's future as a global power. Cross-listed with INST 334. C.
- PLSC 335 Latin American Politics 5**
Four struggles: democratization, sovereignty, development, equity. Consideration of political economy, history, institutions, key actors and case studies. Democratic and authoritarian regimes, state-led and market-led economic policies, revolutionary and non-violent social movements, and identity politics. Cross-listed with INST 320. C.
- PLSC 337 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. C.
- PLSC 338 The Political Economy of Africa 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 352 Modern Political Thought 5**
Foundations of modern Western political thought, from the Renaissance to the French Revolution. TL.
- PLSC 355 Contemporary Political Thought..... 5**
The question of a crisis in modern Western political thought, explored in relation to Freud and modern identity, existentialism, Marx and critical theory, the critique of global capitalism, Arendt and civic, postmodernism, and feminism. TL.
- 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. TL.

- PLSC 361 U.S. 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 362 Global Governance** 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. Cross-listed with INST 362. I.
- PLSC 363 North-South Relations** 5
The international relations of the more powerful and wealthy part of the world system (the North) in relationship to the relatively less powerful and wealthy (the South). Liberal, structural, realist, and neo-conservative theories. Aid, trade, MNC's, immigration, terrorism, and military intervention. Multilateralism, diplomacy, and unilateral foreign policy. I.
- PLSC 364 US-Latin American Relations** 5
Theoretical insights from international relations and human geography theory including historical and idealistic perspectives. Themes include sovereignty and intervention, inter-American organizations, trade and development, trans-American migration, and drug trafficking. Comparison with US-Philippines relations. Cross-listed with INST 321. I.
- PLSC 365 East Asian Security** 5
Through various theoretical lenses of international relations, this course examines the sources of conflict and cooperation in Northeast Asia, with a primary focus on China, Japan, and the two Koreas, and their interactions with the United States and Russia, in the Cold War and the post-Cold War contexts. Cross-listed with INST 365. I.
- PLSC 366 Comparative Foreign Policy** 5
Examination of key forces at the individual, group, state and systemic levels of analysis that shape and change foreign policy behavior of states, including decision-making, group dynamics, organizational interests, public opinion, national role conception, strategic interaction and relative capability changes in the international system. The impact of these forces is elucidated through cross-national comparisons of foreign policy interests, process and outcomes. Cross-listed with INST 366. I.
- PLSC 391-393 Special Topics** 1 to 5
- PLSC 396 Directed Study** 1 to 5
- PLSC 406 Washington State Legislature** 5
Tutorial. Offered only in conjunction with 10 credits of 495, Legislative Internship.
- PLSC 410 Urban Politics and Public Policy** 5
Problems of large American cities, including taxation, transportation, housing, public safety, and schools. Special attention to community and diversity. A.

- PLSC 432 Social Policy: US and Europe 5**
 Social policy programs and outcomes assessed by justice and efficiency criteria. Interplay of social and economic policy. Focus on taxation, income maintenance, health care, education, social services. Impact of government structure, interest groups, demography. US, Canada, Western Europe, Scandinavia. Senior Synthesis. 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. Senior Synthesis. TL.
- PLSC 464 European Union 5**
 The European Union'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 468 Transnational Networks and Globalization 5**
 Cross-border political networking among non-governmental and social movement organizations. Influence of these transnational networks on globalization, international relations, and citizenship. Case studies of transnational advocacy around human rights, terrorism, economic globalization and environmental issues. Examined with theory from political science, sociology and geography. Cross-listed with INST 468. I.
- PLSC 469 Hegemony and Empire 5**
 Seminar on two forms of international order. Theories and debates on the distinctions between a dominant power based on the control of foreign policy or on the control of domestic governance. How basic rules of sovereignty and national self determination challenge this. Senior Synthesis. I.
- PLSC 479 Departmental Honors Thesis Supervision..... 1 to 10**
- PLSC 480 The Human Prospect..... 5**
 An examination of the social and 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 483 Native American Encounters 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. Core interdisciplinary option. Cross-listed with HIST 484. A.
- PLSC 485 Indigenous Movements in Latin America 5**
 Organization, mobilization and impact of indigenous peoples' movements in Latin America. Legacies of colonialism in current globalization processes; social identities and inequalities; political efficacy of marginalized groups. Theory from inter-disciplinary fields of post-colonial studies, race and ethnic studies, and social movement studies. Implications for social justice and diversity. Core interdisciplinary option. Cross-listed with INST 485. I.

PLSC 495	Internship	1 to 5
On-the-job experience with appropriate governmental or nonprofit agency. Students may register for no more than 5 total intern credits, except in the case of the Washington State program. Mandatory CR/F.		
PLSC 491-493	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

Angelique Davis, JD, Advisor

College of Arts and Sciences 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's College of Arts and Sciences 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 in the College of Arts and Sciences who are 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 advisor. Students should consult with the prelaw advisor at the beginning of their junior and senior years to confirm they are properly prepared for the law school application process. In addition, at the beginning of 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 Admissions Test (LSAT). For comprehensive information on the College of Arts and Sciences' prelaw program and detailed information on applying to law school, students should visit the prelaw website: seattleu.edu/artsci/prelaw.

Premajor Studies Program

Betsey Barker Klein, MA, Director

Roger Gillis, SJ, MFA, Associate Director

Kimberly Thomas, MEd, Advisor

Objectives

Seattle University recognizes that many students come to the University wishing to explore academic programs and careers before committing themselves to a major. The premajor studies program 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 advisor who not only assists in arranging the student's program, but also aids in the process of making an academic major and career decision. The program is a function of Student Academic Services.

The Premajor Studies Program offers specialized services to guide students through the major exploration process. These services include:

- Annual Academic Majors Fair (exploration of every major in one location)
- Choosing a major workshops
- Personalized advising from professional staff
- Information on academic majors at Seattle University

General Program Requirements

The Premajor Studies 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. Students who fail to apply for or be accepted into a major or professional school by the attainment of junior status are subject to dismissal from the university.

Psychology

S. Kathleen La Voy, PhD, Chair

Objectives

The specific and unique role of the Psychology Department is to provide 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*)

Majors Offered

Psychology

Psychology with Departmental Honors

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 and for those transferring majors within the university.

Psychology majors may choose any minor. 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, MATH 110, PSYC 120, 301, 303, 305, and 489 in the bachelor of arts and bachelor of arts with honors programs. In the bachelor of science and bachelor of science with honors programs, those courses plus 308, 330 or 316, 403, and 404 or 440 must be graded C or higher. Psychology majors must complete at least 30 credits in the major at Seattle University.

A psychology major cannot count more than 10 credits in independent study toward the 60 credits required for the major.

Several courses in the Psychology major have been identified as satisfying the core interdisciplinary requirement. 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.

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 and major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 110 or above	.....	*5
Lab Science	.....	5
Fine Arts (one approved 5 credit course; see course descriptions).....		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		

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill psychology major requirements.

Choose one of the following two courses:

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

III. Major Requirements

60 credits in psychology, including:

PSYC 120	Introductory Psychology	*5
PSYC 301	History and Schools of Psychology	*5
PSYC 303	Statistics and Research Methods I	*5
PSYC 305	Statistics and Research Methods II	*5

PSYC 489	Senior Seminar.....	*5
PSYC	Electives.....	35

NOTE: 1. *Must be graded C (2.00), or better. 2. No more than 10 credits of independent study are permitted.

Bachelor of Arts

Major in Psychology with Departmental Honors

The psychology departmental honors major offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, the student must have a cumulative and major/program grade point average of 3.50, and completed PSYC 120 and at least three other psychology courses. Additionally, the student must have PSYC 303 and 305 completed before the spring of the junior year. Interested students should apply to the department chair in the winter quarter of the junior year. Upon acceptance, a Change of Major, Degree or Specialization form is submitted to the Office of the Registrar.

Completion of the major: During the junior and senior years, departmental honors students will take the departmental honors sequence (PSYC 477—spring of junior year; PSYC 478—fall of senior year; and PSYC 479—winter of senior year). Students in the departmental honors program complete 15 credits of course work above the norm for psychology majors (for a total of 75 credits in psychology) and complete a major project or thesis under the direction of their advisor. The format of the project/thesis may include, but is not limited to: a published paper, acceptance and presentation of work at an approved conference, or unique research and/or service. The project/thesis will also be presented at a departmental pro-seminar. In order to complete the requirements for departmental honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50, as well as receive a grade of A- or higher in PSYC 477, 478, and 479. In addition to the Bachelor of Arts major in psychology requirements, the honors major also includes the following 15 credits:

PSYC 477	Departmental Honors Seminar	5
PSYC 478	Departmental Honors Directed Study.....	5
PSYC 479	Departmental Honors Thesis Supervision	5

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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5

ENGL 120	Introduction to Literature	5
MATH (filled by MATH 120 in major)		*
Lab Science (filled by BIOL 161/171 in major)		
Fine Arts (one approved 5 credit course; see course descriptions)		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		

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern 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

60 credits in psychology, including:

PSYC 120	Introductory Psychology	*5
PSYC 301	History and Schools of Psychology	*5
PSYC 303	Statistics and Research Methods I	*5
PSYC 305	Statistics and Research Methods II	*5
PSYC 308	Qualitative Research Methods	*5
PSYC 403	Advanced Statistics and Experimental Design	*5
PSYC 489	Senior Seminar	*5
PSYC	Electives	15

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 404	Psychology of Learning
PSYC 440	Cognitive Psychology

IV. Other Major Department Requirements

In Mathematics and physical science:

BIOL 161	Biology I: Molecular and Cellular	4
BIOL 171	Biology I Lab	1
MATH 120	Precalculus: Algebra.....	*5
Electives (includes any mathematics or laboratory science course)		10

NOTE: 1. * Must be graded C (2.00), or better. 2. No more than 10 credits of independent study are permitted.

Bachelor of Science

Major in Psychology with Departmental Honors

The psychology departmental honors major offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, the student must have a cumulative and major/program grade point average of 3.50, and completed PSYC 120 and at least three other psychology courses. Additionally, the student must have PSYC 303 and 305 completed before the spring of the junior year. Upon acceptance, a Change of Major, Degree or Specialization form is submitted to the Office of the Registrar.

Completion of the major: During the junior and senior years, departmental honors students will take the departmental honors sequence (PSYC 477—spring of junior year; PSYC 478—fall of senior year; and PSYC 479—winter of senior year). Students in the departmental honors program complete 15 credits of course work above the norm for psychology majors (for a total of 75 credits in psychology) and complete a major project or thesis under the direction of their advisor. The format of the project/thesis may include, but is not limited to: a published paper, acceptance and presentation of work at an approved conference, or unique research and/or service. The project/thesis will also be presented at a departmental pro-seminar. In order to complete the requirements for departmental honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50, as well as receive a grade of A- or higher in PSYC 477, 478, and 479. In addition to the Bachelor of Science major in psychology requirements, the honors major also includes the following 15 credits:

PSYC 477	Departmental Honors Seminar	5
PSYC 478	Departmental Honors Directed Study.....	5
PSYC 479	Departmental Honors Thesis Supervision	5

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

NOTE: Only five credits of independent study are permitted. A maximum of 15 transfer credits may be used for the minor in psychology.

See policy for minors (84-1) for more information.

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. Core Option: Social Science I.

PSYC 201 Statistics for Non-Majors **5**

Basic descriptive and inferential statistics; central tendency, variability, correlation and regression, probability, z and t tests, one-way analysis of variance. Not for psychology majors. Prerequisite: At least high school algebra.

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. Core Option: Social Science II.

PSYC 222 Social Psychology **5**

A broad overview of the field of social psychology. Throughout the course, students will be introduced to overarching theories of social psychology and the research data that support them. Students will not only learn about the issues and problems that social psychologists confront, but also the methods that they use to explore them. Prerequisite: PSYC 120.

PSYC 230 Psychology of Religion **5**

This course uses psychological data—both personal and social-psychological—to confront and explore both contemporary issues and students' own beliefs regarding religious concepts, beliefs, and practices. The goal of the course is to understand one's own and others' religious development using a variety of methods, such as reflections, psychological testing, service learning, individual spiritual guidance, and the study of spiritual models.

PSYC 291-293 Special Topics **1 to 5**

PSYC 296 Directed Study..... **1 to 5**

PSYC 301 History and Schools of Psychology..... 5

A critical examination of the history of modern psychology that will include the development of psychology as a recognized discipline, its emerging schools (e.g. structuralism, functionalism, behaviorism, cognitive, humanistic, existential-phenomenological), and its central dilemmas (e.g. scientific status, role of race and gender dualism). This course will focus not only on "the great ideas," but also on who develops these ideas and in what socio-cultural contexts. As part of this, we will examine the relationships between psychology and other disciplines, as well as between psychology and society. Prerequisite: PSYC 120.

PSYC 303 Statistics and Research Methods I* 5

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. 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. Prerequisite: PSYC 120 and MATH 110 or above with C or better. Majors only.

PSYC 305 Statistics and Research Methods II* 5

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. 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. Prerequisite: PSYC 303 with C or better. Majors only.

*The two courses, PSYC 303 and 305 are components of a single 10-credit course. All must be completed with a C or above to satisfy any requirement. Students are allowed to re-take any section of Statistics I or II which they fail a maximum of three times. If a student takes and fails any section of Statistics I or II for a third time they will be dismissed from the major.

PSYC 308 Qualitative Research 5

An introduction to qualitative research methods from a phenomenological approach. A critical review of the philosophical assumptions of mainstream experimental approach that uses mostly quantitative methods and simultaneously a look at the philosophical foundations of qualitative approach that explores experienced meanings. Students typically conduct projects in groups, collecting, analyzing, and presenting descriptions. Prerequisite: PSYC 120, junior standing.

PSYC 309	Phenomenological Psychology	5
Phenomenological psychology, an alternative to the mainstream approach that imitates the reductionistic philosophy and methods of natural sciences, is founded on a philosophy that places experience at the center of the human struggle with freedom and responsibility. Focus on the ambiguous and paradoxical meanings experienced in perception, learning, development, emotions, motives, social interactions, pathology, and psychotherapy. It uses the rich language of qualitative descriptions as its methodology to reveal directly experienced meanings. Prerequisite: PSYC 120, junior standing.		
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. Prerequisite: PSYC 120.		
PSYC 316	Health Psychology	5
An introduction to the field of health psychology from the perspective of both a researcher and clinician. Students will gain a broad understanding of the interrelationships among behavioral, emotional, cognitive, social, and biological components in health and disease. All of this will be understood in the context of the promotion and maintenance of health, as well as the prevention, treatment and rehabilitation of illness; in sum, the interface of psychology, behavior, and health. Prerequisite: PSYC 120. PSYC 330 recommended.		
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: 15 credits in psychology and PSYC 120 or equivalent.		

- PSYC 360 Forensic Psychology 5**
 Overview of forensic psychology and the nexus between psychology, law, and criminology. Survey of policy, practice, and research in forensic psychology and application of psychology to the criminal justice system and criminal and civil litigation. Topics include: Criminal behavior, the relationship between the criminal justice and mental health systems, ethical guidelines and challenges faced in forensic work, methods and instruments used by forensic psychologists, investigative psychology and offender profiling, the insanity defense and competency determinations, risk assessment and prediction of dangerousness, sex-offender treatment, and correctional interventions. Cross-listed with CRJS 360. Prerequisites: CRJS 110, CRJS 209, PSYC 120.
- PSYC 391-393 Special Topics 1 to 5**
- PSYC 396 Directed Study 1 to 5**
- PSYC 403 Advanced Statistics and Experimental Design 5**
 Covers numerous multivariate statistics and related research methodology in the behavioral sciences. Students will gain a strong conceptual understanding of various multivariate statistics and develop an understanding of the application of these techniques to answer various research questions. Students will also learn how to conduct and interpret analyses in SPSS. Prerequisites: PSYC 303, 305.
- 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 427 Introduction to Counseling..... 5**
 Basic theory, principles and dynamics of the counselor-client relationship and the counseling process. Prerequisite: PSYC 120, 10 additional PSYC credits, and junior standing.
- 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 303 recommended.
- PSYC 460 The Psychology of Relationships 5**
 Examines a variety of life's relationships, through literature, film, psychological theory, discussion and student participation. The aim is to study relationships in the context of 'real people' – not through the textbook approach without the human aspect of human behavior. Prerequisite: PSYC 120, and at least two psychology electives.
- PSYC 461 Theory and Experience of Group Dynamics..... 5**
 Basic theory and principles of group dynamics. Experience of dynamics in a group focusing on the interpersonal as a foundation for understanding theory. Course content can be used to better compare and understand the workings of groups in a variety of professional settings. Open to majors and non-majors.

PSYC 477	Departmental Honors Seminar	5
PSYC 478	Departmental Honors Directed Study	5
PSYC 479	Departmental Honors Thesis Supervision.....	5
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 option.

PSYC 482	Psychology of Forgiveness	5
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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. Core interdisciplinary option. Prerequisite: PSYC 120.

PSYC 483	Multi-cultural Psychology: Vietnam and Vietnamese-Americans.....	5
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Reviews general theories, methods and findings in multi-cultural psychology, then applies them to the case study of Vietnam, the Vietnam War, and Vietnamese Americans. Contributions from other disciplines such as history, sociology, religious studies, geography and philosophy are considered. Options allow 3 credit lecture only course or 5 credits including field work. Either satisfies core interdisciplinary requirement. Prerequisite: PSYC 120 or instructor permission.

PSYC 485	HIV/AIDS: The Epidemic	5
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Provides an overview of the HIV/AIDS epidemic including changes in the pattern of occurrence, signs and symptoms, classifications of the disease, recognition of the course of the disease, and strategies for prevention. Satisfies core interdisciplinary requirement. Prerequisite: sophomore standing.

PSYC 489	Senior Seminar	5
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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. Recommended for last quarter of enrollment. Prerequisite: senior psychology majors only or permission for non-majors. Satisfies core senior synthesis.

PSYC 491-493	Special Topics in Psychology.....	1 to 5
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PSYC 495	Internships	1 to 5
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PSYC 496	Independent Study	1 to 5
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PSYC 497	Directed Reading.....	1 to 5
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PSYC 498	Directed Research.....	1 to 5
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By arrangement. Prerequisite: permission.

Public Affairs

Russell M. Lidman, PhD, Institute of Public Service Director

Noreen Elbert, EdD, BPA Program Director

Danielle Potter, MPA, Deputy Coordinator

Objectives

The major in public affairs welcomes motivated students interested in policy-making, planning, community service and advocacy in public and nonprofit organizations. The bachelor of public affairs degree (BPA) integrates the mission of Seattle University through its focus on social justice and dedication to "empowering leaders for a just and humane world."

Coursework in the BPA encourages students to explore diverse perspectives, apply problem-solving skills, and engage in practical experiences that enable graduates to undertake important leadership responsibilities and challenging work in the public and nonprofit sectors. The course work includes management studies and public policy analysis. Several policy pathways are available to students, allowing the students to shape their studies according to their interests and concerns. Students earning this degree will be prepared to contribute to all sectors of society and levels of government. This degree is also excellent preparation for graduate or professional school.

There is a BPA/MPA joint degree option. Upon completion of the BPA program, a Seattle University BPA student may apply for the Master of Public Administration (MPA) program. The graduate degree can be completed in four additional quarters. For joint degree students only there is a reduced, 36-credit requirement for the MPA. See the *Graduate Bulletin of Information* for a description of the MPA program.

Degree Offered

Bachelor of Public Affairs

Major Offered

Major in Public Affairs

General Program Requirements

It is strongly suggested that students make an appointment with the BPA program director to discuss their interest in public affairs prior to declaring the major.

Public affairs majors must achieve a cumulative grade point average of 2.00 and a minimum of a 2.50 grade point average in the major in order to graduate.

BPA students planning to apply to the graduate Master of Public Administration degree program must have a 3.00 or higher cumulative GPA.

NOTE: Some PUBA 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.

Bachelor of Public Affairs

Major in Public Affairs

In order to earn the bachelor of public affairs degree, students must complete a minimum of 180 credits with a cumulative grade point average of 2.00 and a major grade point average of 2.50.

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origin of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above	.....	5
Lab Science	.....	5
Fine Arts (one approved 5 credit course; see course descriptions)	.....	5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics or political science)	.....	5
Social Science II (ECON 271 required in major)	.....	*
Theology and Religious Studies Phase II (200-299)	.....	5
Ethics (upper division) (major course may satisfy)	.....	5
Theology and Religious Studies Phase II (300-399)	.....	5
Interdisciplinary (PUBA 480 recommended)	.....	3 to 5
Senior Synthesis satisfied by PUBA 490		

*Included in major GPA.

II. College of Arts & Sciences Requirements

Modern Language 115, 125, 135 or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill public affairs major requirements.

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

III. Major Requirements

A minimum of 60 credits consisting of foundation, programmatic and professional courses.

Area I: Foundational and Prerequisites

ECON 271	Principles of Economics – Macro (fulfills Core Social Science II)	5
ECON 272	Principles of Economics – Micro	5
PLSC 309	Local and State Politics.....	5
PUBA 401	Foundations of Public Administration	3 to 5

Area II: Programmatic: Policy Pathway

Students are required to take at least three courses from one of the following policy pathways. Courses will be determined with consent of the student's major advisor. Elective courses may be used to fulfill policy pathway requirements.

Urban Studies	10 to 15
Nonprofit Leadership	10 to 15
Environmental Policy	10 to 15
Criminal Justice	10 to 15
International Studies.....	10 to 15
(Study abroad options are available to interested students)	
Social Policy.....	10 to 15

Area III: Programmatic – Linked Policy Analysis/Senior Synthesis

PUBA 490	Policy Reform.....	3 to 5
PUBA 495	Internship.....	3 to 6

Area IV: Professional

(Courses co-listed in the Graduate Bulletin at the 500 level)

PUBA 411	Organizational Analysis	3 to 5
PUBA 430	Management Analysis and Control.....	3 to 5
PUBA 440	Policy and Program Research.....	3 to 5
PUBA 441	Policy Analysis.....	3 to 5

Professional Field Internship

A second internship is required of joint BPA/MPA students. This second internship is not a requirement for the BPA. This internship will typically be undertaken in the quarter following completion of the BPA requirements.

PUBM 595	Internship.....	1 to 6
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Public Affairs Courses

- PUBA 350 Exploring the American City:
Urban Design and Community Development 5**
The development of American cities and urban planning. This class explores the roles and relationships between society and the built environment. Topics include land use, growth management strategies, transportation, housing, urban decline and revitalization.
- PUBA 353 Housing Design and the Sustainable Community 5**
This survey course examines housing and the creation of the "American dream." Course material is approached through a historic profile of design, style, and urban development. Class explores the role of public policy and the relationship of housing to the popular media, advertising, physical design, and societal interests. Cross-listed with SOCL 353.
- PUBA 355 Community Design Workshop 5**
Service learning course that integrates planning methods and practice of community building through a quarter-long project. Students analyze and develop strategies and recommendations in an urban development or design plan. Cross-listed with SOCL 355.
- PUBA 396 Directed Study 1 to 5**
- PUBA 401 Foundations of Public Administration 3 to 5**
Provides an overview of the practice of public administration, including key current and future issues, basic concepts, and intellectual history. Addresses a variety of topics such as the changing scope and role of governments in American society, cross-national comparisons of political cultures, leadership roles of administrators in government, administrative responsiveness and accountability, and ethical analysis. Student should take this course within the first year of declaring the major. Required.
- PUBA 411 Organizational Analysis 3 to 5**
Reviews classical and emerging perspectives from organizational theory; focuses on improving student's effectiveness in public and nonprofit organizations. Develops capacities to understand and address issues concerning organizational values, assumptions about human nature, and organizational structure, culture, politics, psychology, and learning. Required.
- PUBA 412 Policy Formation and Implementation 3 to 5**
Analyzes processes by which various issues become public policies and public programs. Addresses the interplay of executive, legislative and judicial branches and the various other stakeholders in the processes of policy formation and implementation. Special consideration is paid to the impact and influence of public bureaucracies, values, and ethics. This course examines why policy may have been formulated or not on selected issues and considers barriers to the effective implementation of policy.

- PUBA 430 Management Analysis and Control 3 to 5**
Examines primary concepts and purposes of management control in public and nonprofit organizations; defines terminology and addresses principles of financial accounting. Concepts include responsibility and program structure, audit responsibility, analysis of financial statements, cost accounting, and pricing. Emphasis is upon student analysis of management systems within contemporary organizations. Required. Prerequisite: ECON 272.
- PUBA 440 Policy and Program Research 3 to 5**
Provides an overview of the research methodologies used for public decision-making. Concepts include specification of questions to guide inquiry, basis for causal inference, acquisition of quantitative data, reliability and validity issues, descriptive statistics, and the logic of statistics. Provides students with an opportunity to build skills in designing, conducting, and analyzing research. Required. Prerequisite: Math 107 or above.
- PUBA 441 Policy Analysis 3 to 5**
Addresses the systematic analysis of policies that are under consideration or, after having been implemented, are under review. Emphasizes logical and prescriptive techniques for analyzing public policies and making decisions regarding policy change. Emphasis is on conceptualization, interpretation, and analysis of selected policies. Required.
- PUBA 464 Building Effective Teams 3 to 5**
Focuses on how teams are used in both public and nonprofit organizations. Students explore the critical steps and roles that team members and leaders take to achieve excellence in team performance. Issues such as roles and responsibilities of team members and team leaders are addressed, in addition to determining team strengths and weaknesses, building hands-on skills in completing a team-selected case analysis and presentation, and creating and maintaining the conditions that promote team effectiveness. Cross-listed with NPLR 464.
- PUBA 466 Beyond Grantmaking:
Partnering with Institutional Funders 3 to 5**
Provides students with a framework of the grant writing process. Topics include an overview of the nonprofit and philanthropic sector; learning about the grantmaker's perspective; corporate giving; foundations; and proactive partnering and ethics. Cross-listed with NPLR 444.
- PUBA 467 Strategic Planning for Public and Nonprofit
Organizations 3 to 5**
Uses theory and practical applications of planning to understand the reasons for planning and the basic elements involved in creating a plan. The leadership and management skills needed for effective facilitation of a planning process are explored. Topics include strategic business and social enterprise planning by combining lectures discussions, in-class exercises, readings, participatory class assignments, and guest presentations.
- PUBA 471 Government Finance 3 to 5**
Analyzes the revenues, expenditures, and debt of federal, state, and local governments. Uses economic theories and models to understand the role of the public sector as means of social reform, economic efficiency, and distributional equity.

PUBA 480 Asian American Experience:
Culture, History, and Community..... 5

A survey course on the Asian and Pacific American experience that looks at history, trans-planting of cultural values in a new land, expressing community values in social organiza-tions, and physical form. Satisfies core interdisciplinary option.

PUBA 481-483 Interdisciplinary Core Course 3 to 5
Title and content vary.

PUBA 490 Policy Reform 3 to 5
Students will create reform proposals based on data collection, ethical reasoning, and field interviews with public officials, nonprofit organizations, policy advocates and af-fected populations. This class focuses on the intersection of diverse policy issues and the constraints on an organization's resources. Requires advanced skills in writing and public speaking. Required capstone course. Also counts as Senior Synthesis. Prerequisite: PUBA 440 and senior standing.

PUBA 491-493 Special Topics 3 to 5

PUBA 495 Internship 3 to 6
Practical experience with an appropriate governmental, nonprofit, or public sector organi-zation is critical to understanding public service. Internships must be approved by the BPA program director prior to start. Required. Prerequisite: 3 PUBA Area IV courses.

PUBA 496 Independent Study 1 to 5

Social Work

Department of Anthropology, Sociology and Social Work
Mary Kay Brennan, MSW, LICSW Director

Objectives

The bachelor of social work program prepares students for positions as generalist social work practitioners in human services agencies, who are:

- Strongly committed to the goals, values, and ethical standards of the social work profession;
- Able to provide quality services that promote the optimal well-being of individuals, families, groups, organizations, and communities; and
- Committed to redress social inequities.

The program also seeks to provide a sound academic foundation for students who choose to pursue graduate study in social work.

Building on the foundations of the university's liberal arts core, its history of Catholic social teaching, and the Jesuit educational mission, the program seeks to prepare its students with the knowledge and skills to analyze social inequity and oppression in its manifest forms. Building on the collaborative nature of the department and college in which it is situated, the program fosters an interdisciplinary approach to the understanding of social and economic injustices and how they have developed over time, how social forces influence human lives and in turn how individual and community initiatives can work toward the common good and the well-being of all, especially the poor and vulnerable.

The major also strives to prepare students for practice in a diverse and increasingly global environment by promoting openness to, learning from, and respect for people of all faiths, cultures, and traditions.

Degree Offered

Bachelor of Social Work

Majors Offered

Social Work

Social Work with Departmental Honors

Minor Offered

Social Welfare

Accreditation

Council on Social Work Education (CSWE)

General Program Requirements

Students may declare a major in social work at any point from admission to Seattle University through fall of the junior year. Declaring the major as early as possible is encouraged so that students formally come to the program for all their advising. Students are asked to meet regularly with their advisors given the sequenced nature of the curriculum. Social Work majors may choose any minor.

Social Work majors must obtain a minimum grade of C (2.00) or better in required courses, (SOCW 250, 300, 301, 303, 304, 310, 317, 403, 404, 410, 411, 460-2)

Academic Progression in Social Work

Majors are required to apply for formal admission as a Bachelor of Social Work (BSW) degree candidate in the fall of their junior year. Admission requirements include: junior level standing, an overall GPA of 2.50, and completion of Phase One and Social Science I and II of Phase Two of the Core, and BIOL 101 (or its equivalent). Acceptance as a bachelor of social work (BSW) degree candidate is based on faculty review of completed applications which contain a personal statement, academic transcripts, three letters of reference, and a Washington State Patrol criminal background check. Students are referred to the Social Work Program Student Handbook and an Application packet for a more detailed description of the application process. Eligibility to progress in the major and receive the BSW degree is contingent on acceptance as a degree candidate.

Students complete a 450-hour Field Practicum (SOCW 470-2) during their senior year. Students are placed at social service agencies and are supervised by approved social work professionals. The Social Work Program Handbook provides a more detailed description of the Program's Field Education.

Extensive advising about social work as a career, the BSW program, and admissions procedures is available to all interested students from the program director. Please contact the director or the program administrative assistant for more information.

Bachelor of Social Work Major in Social Work

In order to earn the bachelor of social work degree, students must complete a minimum of 180 credits with a cumulative and a program/major grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above	.....	5
Lab Science	(Biology 101 required)	*5
Fine Arts (one approved 5 credit course; see course descriptions)		5
PHIL 220	Philosophy of the Human Person	5

Social Science I (ANTH/SOCL allowed, not SOCW)	5
Social Science II (ANTH/SOCL allowed, not SOCW 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 480 required)	*3
Senior Synthesis (SOCW 490 Social Work Research III: Capstone required)	*3

*Included in major GPA. SOCW 490 must be graded C (2.00) or better.

II. College of Arts and Sciences Requirements

Modern language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency in a language other than English 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern 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

62 credits in social work, including:

SOCW 250 Introduction to Social Work	*5
SOCW 300 Human Behavior in the Social Environment	*3
SOCW 301 Human Development and Social Work	*3
SOCW 303 History of U.S. Social Welfare Policy	*5
SOCW 304 Contemporary Social Policy and Services	*5
SOCW 310 Practice I: Social Work with Individuals and Families	*5
SOCW 317 Race and Ethnicity	*5
SOCW 403 Social Work Research I: Methods	*3
SOCW 404 Social Work Research II: Data Analysis	*3
SOCW 410 Practice II: Social Work with Groups	*3
SOCW 411 Practice III: Social Work with Organizations and Communities	*5
SOCW 460-2 Field Seminar I, II, III	*3
SOCW 470-2 Field Practicum I, II, III	9

Electives	SOCW, or other departments as approved by program director	5
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NOTE: 1. *Must be graded C (2.00), or better. 2. See department for list of approved electives.

Bachelor of Social Work

Major in Social Work with Departmental Honors

The honors major in social work offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have both a cumulative and major/program grade point average of 3.50 and must have completed SOCW 300, SOCW 304, and SOCW 310. Interested students should apply in spring quarter of the junior year or fall quarter of the senior year.

Completion of the major: During senior year, social work honors students will take the social work honors sequence (SOCW 477 for 3 credits in the fall quarter, SOCW 478 for 3 credits in the winter quarter, and SOCW 479 for 4 credits in the spring quarter). Students in the social work honors major complete 10 credits of course work above the norm for social work majors (for a total of 72 credits in social work), and also complete a substantial thesis under the direction of a faculty member. The thesis will be subject to approval by department faculty and will be presented in an oral defense. In order to complete the requirements for social work honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50. In addition, the grade received for SOCW 479 Social Work Honors Thesis Supervision must be an A or A-. In addition to the bachelor of social work major requirements, the honors major also includes:

10 credits in social work honors, including:

SOCW 477	Social Work Honors Directed Reading	3
SOCW 478	Social Work Honors Directed Study	3
SOCW 479	Social Work Honors Thesis Supervision	4

Minor in Social Welfare

In order to earn a minor in social welfare students must complete 31 credits, including:

SOCW 250	Introduction to Social Work	5
SOCW 300	Human Behavior in the Social Environment	3
SOCW 301	Human Development and Social Work	3
SOCW 304	Contemporary Social Policy and Services	5
SOCW 317	Race and Ethnicity	5

Choose two from the following five courses: 10

SOCW 303	History of U.S. Social Welfare Policy
SOCW 370	International Social Welfare
SOCW 400	Social Work with Children and Youth
SOCW 401	Working with Troubled Families
SOCW 402	Mental Illness

NOTE: Transfer students must take at least 15 upper-division SOCW credits at Seattle University for the minor. See policy for minors (84-1) for more information.

Social Work Courses

SOCW 250 Introduction to Social Work..... 5

Historical development of the 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 need.

SOCW 296 Directed Study..... 1 to 5

SOCW 300 Human Behavior in the Social Environment..... 3

The theoretical perspectives for studying human behavior. The importance of organizations, communities, society and global influence in understanding human behavior in the social environment.

SOCW 301 Human Development and Social Work 3

Psychological, physiological and social approaches to human development across the life span. Examines the effects of culture, social systems and institutions on individual development from an ecological perspective.

SOCW 303 History of U.S. Social Welfare Policy..... 5

An examination of the history of attitudes and policies concerning poverty and related social problems in the United States. Covers historic roots of social policy focusing most intently on the late nineteenth century through mid-1980's. History of the development of the social work field and the role social work plays in advancing social policy concerns.

SOCW 304 Contemporary Social Policy and Services..... 5

Covers development of social policy from mid-1980's through current policy with a focus on an examination of the array of state and federal programs for poverty, disability, and social security. Addresses contemporary social problems and analysis of the range of policy alternatives with emphasis on the role of social workers as policy advocates.

SOCW 310 Practice I: Social Work with Individuals and Families 5

First course in a three-course sequence of generalist practice methods. Focuses on the knowledge, values and ethics, and methods for working with individuals and families. Skills in assessment, planning, interviewing, intervening, evaluating and terminating. BSW degree candidates only. Prerequisite: SOCW 300.

- SOCW 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. Cross-listed with SOCL 317.
- SOCW 370 International Social Welfare** 5
Examination of issues related to social welfare in a global context, including the role of international agencies such as the IMF, World Bank and humanitarian aid organizations. Critical comparison of social welfare in the USA and another country, with a focus on the role of culture in social welfare policy and practice. Study/service abroad for credit is an optional component of this course. Strongly recommended: SOCW 301, SOCW 304, SOCW 317.
- SOCW 375 Health and Human Services in Belize** 5
An exploration of the history, culture, and health and human service infrastructure of Belize in the context of thinking critically about global issues in health and social welfare. Students will meet weekly during spring quarter and spend 10 days working with agencies in Belize according to their interests and skill set. Cross-listed with NURS 375.
- SOCW 391-393 Special Topics** 1 to 5
- SOCW 396 Directed Study** 1 to 5
- SOCW 400 Social Work with Children and Youth** 5
An examination of current ecological influences and their impact on culturally diverse children and youth in America including poverty and homelessness, exposure to community violence, child abuse and neglect, teenage parenting, and substance abuse in families. Exploration of child welfare policy and services, emphasizing the continuum of child welfare interventions.
- SOCW 401 Working with Troubled Families** 5
Behavioral dynamics in family systems, the reciprocal nature of relationships, and conceptual framework for working with families. Examination of: child abuse, oppressed families, family violence, chronic illness, death and dying, and addictions.
- SOCW 402 Mental Illness** 5
The nature, dynamics, and treatment of madness and insanity from a socio-cultural perspective. Theoretical perspectives on the cause of mental illness, including social causes such as class gender and cultural differences. Therapeutic approaches in cross-cultural and historic perspectives. Contemporary definitions and treatment.
- SOCW 403 Social Work Research I: Methods** 3
Methods of scientific investigation with application to the social welfare field. Values and ethics for social work research. Stages of the research process including design, data collection, qualitative and quantitative methods. Co-requisite: SOCW 470 or 471. BSW degree candidates only.

SOCW 404	Social Work Research II: Data Analysis	3
An introduction to data analysis strategies for quantitative and qualitative data. Introduction to the application of computers and computer software in descriptive and inferential statistics. Prerequisite: Majors only.		
SOCW 410	Practice II: Social Work with Groups	3
Second course in the three-course sequence of generalist practice methods. Focuses on the values and ethics, knowledge base and intervention methods foundational to practice with groups. Skills in group participation and leadership. . BSW degree candidates only. Prerequisite: SOCW 310.		
SOCW 411	Practice III: Social Work with Organizations and Communities.....	5
Third course in a three-course sequence of generalist practice methods. Focuses on the values and ethics, knowledge base and intervention methods foundational to practice with organizations and communities. Working with organizations and communities to solve problems through assessment, planning, intervening, and evaluating. BSW degree candidates only. Prerequisites: SOCW 310 and SOCW 410.		
SOCW 460	Field Seminar I.....	1
SOCW 461	Field Seminar II.....	1
SOCW 462	Field Seminar III	1
The field seminar is offered concurrent with the Field Practicum experience. Integration and application of social work foundation content areas with generalist practice. Professional development and growth, including peer consultation. Prerequisite: SOCW 310, BSW degree candidates only. Co-requisite: SOCW 470-2.		
SOCW 470	Field Practicum I.....	3
SOCW 471	Field Practicum II.....	3
SOCW 472	Field Practicum III.....	3
The 450-hour field practicum allows the student to critically apply knowledge to actual practice and to develop as a professional while placed in a social service agency under the supervision of a social work professional. BSW degree candidates only. Mandatory credit/no credit. Prerequisite: SOCW 300,301,310. Co-requisite SOCW 460-462.		
SOCW 475	Politics of Homelessness	3
This course examines homelessness in Seattle and King County from social, economic, political, and ethical perspectives. Consideration will be given to the causes, characteristics, and potential cures of/for homelessness. Presentations from homeless and formerly homeless people, service providers, and local public officials responsible for policy responses to homelessness, are a key feature of this course.		
SOCW 477	Honors Directed Reading	3
SOCW 478	Honors Directed Study	3
SOCW 479	Honors Thesis Supervision.....	4

SOCW 490	Social Work Research III: Capstone	3
Serves as the final capstone experience in the BSW Program as well as the final requirement of the university's Core Curriculum. The senior synthesis allows students to demonstrate their mastery of program curricular content and ability to integrate and apply knowledge from across the curriculum through evaluating a component of their field practicum. Co-requisites: SOCW 462, SOCW 472. BSW degree candidates only. Meets senior synthesis requirement.		
SOCW 491-493	Special Topics	1 to 5
SOCW 496	Independent Study	1 to 5
SOCW 497	Directed Reading	1 to 5
SOCW 498	Directed Research	1 to 5

Sociology

Department of Anthropology, Sociology and Social Work

Jodi O'Brien, PhD, Chair

Objectives

Sociologists are 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 invited to develop their abilities to apply the sociological perspective to the study of social life. 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

Sociology with Departmental Honors

Minor Offered

Sociology

Bachelor of Arts

Major in Sociology

In order to earn the bachelor of arts degree with a major in sociology, students must complete a minimum of 180 credits with a cumulative and major/program grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5

MATH 107 or 110 or above	5
Lab Science	5
Fine Arts (one approved 5 credit course; see course descriptions).....	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

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill sociology major requirements.

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

III. Major Requirements

55 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
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SOCL 316	Class and Inequality
SOCL 317	Race and Ethnicity
SOCL 318	Gender Roles and Sexuality

Area II: Self and Society

Choose one from the following two courses:	5
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SOCL 222	Society and Behavior
ANTH 323	Culture and Personality

Choose electives from ANTH, SOCL and SOCW courses. 30

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. Several courses in the sociology major 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.

Bachelor of Arts

Major in Sociology with Departmental Honors

The honors major in sociology offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have both a cumulative and major/program grade point average of 3.50 and must have completed SOCL 302 and SOCL 402. Interested students should apply in spring quarter of the junior year or fall quarter of the senior year.

Completion of the major: During senior year, sociology honors students will take the sociology honors sequence (SOCL 477 for 3 credits in fall quarter, SOCL 478 for 3 credits in winter quarter, and SOCL 479 for 4 credits in spring quarter). Students in the sociology honors major complete 10 credits of course work above the norm for sociology majors (for a total of 65 credits in sociology), and also complete a substantial thesis under the direction of a faculty member. The thesis will be subject to approval by department faculty and will be presented in an oral defense. In order to complete the requirements for sociology honors and receive a notation to that effect on their transcripts, students must also maintain a cumulative and major/program grade point average of 3.50. In addition, the grade received for SOCL 479 Sociology Honors Thesis Supervision must be an A or A-. In addition to the bachelor of arts in sociology major requirements, the honors major includes:

Ten credits in sociology honors, including:

SOCL 477	Sociology Honors Directed Reading	3
SOCL 478	Sociology Honors Directed Study	3
SOCL 479	Sociology Honors Thesis Supervision.....	4

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:		
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 Roles and Sexuality**

Area II: Self and Society

Choose one from the following two courses: 5

- SOCL 222 **Society and Behavior**
 ANTH 323 **Culture and Personality**

Choose electives from SOCL, SOCW and ANTH courses: 10

NOTE: 1. Transfer students must take at least 15 upper-division ANTH, SOCL, or SOCW credits at Seattle University for the minor. See policy for minors (84-1) for more information. 2. Several courses in the sociology major 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.

Sociology Courses

- SOCL 120 **Sociological Perspectives** 5

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. Core Option: Social Science I.

- 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 210 **Social Problems** 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. Core Option: Social Science II.

- 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. Core option: Social Science II. Cross-listed with CRJS 200.

- SOCL 222 Society and Behavior..... 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. Core Option: Social Science II.
- SOCL 291-293 Special Topics 1 to 5**
- SOCL 296 Directed Study 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 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 majors.
- 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 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.
- 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. Cross-listed with SOCW 317.
- 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.

- SOCL 324 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. Cross-listed with ANTH 324.
- 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. Cross-listed with ANTH 330.
- 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. Cross-listed with ANTH 333.
- SOCL 334 Punishment and Social Theory 5**
 This course explores the history of crime punishment including various theories for the justification of punishment. Cross-listed with CRJS 423.
- SOCL 335 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. Cross-listed with ANTH 335.
- 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. Cross-listed with ANTH 336.
- SOCL 350 Society and Politics 5**
 Examination of the relationship between politics and social institutions such as the family, law education, and religion. Emphasis is on types of political structures, political action, political movements and the implications of these political activities in other areas of society.
- SOCL 353 Housing Design and the Sustainable Community 5**
 This survey course examines housing and the creation of the "American Dream." Course material is approached through a historic profile of design, style, and urban development. The course explores the role of public policy and the relationship of housing to popular media, advertising, physical design, and societal interests.

- SOCL 355 Community Design Workshop 5**
 Service learning course that integrates planning methods and practices of community building through a quarter-long project. Students analyze and develop strategies and recommendations in an urban development or design plan. Cross-listed with PUBA 355.
- SOCL 391-393 Special Topics 1 to 5**
- SOCL 396 Directed Study..... 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 majors.
- SOCL 410 Feminist Theories..... 5**
 An in depth overview of classical and contemporary feminist theories with an emphasis on the inter-relationships between social class, gender, race, and other social institutions. Cross-listed with WMST 382.
- SOCL 425 Gender, Race and Crime 5**
 This course explores feminist and critical race theoretical perspectives for understanding crime and punishment. The course offers comparisons of offender populations, policies and punishments across race, class, and gender. Topics include racial profiling, disparities and discrimination in the criminal justice system, female offenders, and male violence against women. Cross-listed with CRJS 405.
- SOCL 477 Sociology Honors Directed Reading..... 3**
- SOCL 478 Sociology Honors Directed Study..... 3**
- SOCL 479 Sociology Honors Thesis Supervision 4**
- SOCL 480 Asian American Experience: Culture,
 History and Community..... 5**
 This interdisciplinary course looks at the history, cultural values, expressions of community, and forms of social organization in Asian and Pacific Islander immigrant groups. Satisfies the core interdisciplinary requirement.
- SOCL 481 Sexual Politics..... 5**
 This course explores the social organization and management of sexual expression as reflected in culture, economics, education, law, politics, and religion. Satisfies the core interdisciplinary requirement.
- SOCL 482 -483 Interdisciplinary Core Course 3 to 5**
 Title and content vary.

SOCL 485	Urban Politics	5
Exploration of core theories, concepts, analytical methods and polices related to the field of urban sociology. Course examines the transformation and the political economy of urban spaces; the intersection of race, class, gender and the urban space. Topics will include racial and ethnic segregation, poverty, immigration, gentrification and urban redevelopment, suburbanization, gender, globalization, culture and social movements. Satisfies the core interdisciplinary requirement.		
SOCL 491-493	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 Reading	1 to 5
SOCL 498	Directed Research	1 to 5

Sport and Exercise Science

Dan G. Tripps, PhD, Director

Objectives

The bachelor of science in sport and exercise science is a science-based undergraduate curriculum that explains the contribution of chemistry, nutrition, physiology, anatomy, biomechanics, motor learning and psychology to effective exercise and sport performance. Students wishing to enter the job market with a bachelor's degree are prepared for entry level positions with community, medical, corporate and athletic fitness programs delivered by health clubs, YMCAs, hospitals, industry, and intercollegiate or professional sports teams, and are equally prepared for employment in the sales or marketing division of exercise or medical equipment manufacturers. The curriculum prepares students for the National Strength and Conditioning Association (NSCA) Certification Exam and the American College of Sports Medicine (ACSM) Health/Fitness Instructor Exam and Exercise Specialist Exam.

In addition to meeting the general admission requirements for the university, high school students considering a major in exercise science should take courses in chemistry and physics, as well as a fourth year of mathematics such as calculus or probability and statistics.

Degree Offered

Bachelor of Science

Major Offered

Sport and Exercise Science

Bachelor of Science

Major in Sport and Exercise Science

In order to earn a bachelor of science degree with a major in sport and exercise science, students must complete a minimum of 180 quarter credits with a cumulative grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Writing	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 121	Precalculus: Trigonometry	5
Lab Science	(fulfilled in major)	
Fine Arts (one approved 5-credit course; see course descriptions).....		5
PHIL 220	Philosophy of the Human Person	5
Social Science I	(PSYC 120 required).....	5

Social Science II (not psychology)	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 to 5

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the 135 level in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill sport and exercise science major requirements.

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

III. Major requirements

All of the following courses must be graded C (2.0) or better.

80 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
BIOL 200 Anatomy and Physiology I	5
BIOL 210 Anatomy and Physiology II	5
PHYS 105 Mechanics	5
SPEX 132 Health and Wellness	5
SPEX 211 Responding to Emergency	5
SPEX 231 Sport and Exercise Physiology	5
SPEX 312 Nutrition for Sport and Exercise	5
SPEX 313 Biomechanics and Motor Learning	5
SPEX 321 Care and Prevention of Athletic Injuries	5
SPEX 322 Principles of Resistance and Metabolic Training	5
SPEX 331 Exercise for Rehabilitation	5
SPEX 411 Testing and Technology	5
SPEX 421 Sport and Exercise Psychology	5
SPEX 495 Internship	5

Sport and Exercise Science Courses

- SPEX 132 Health and Wellness 5**
Provides students with a general overview of the physical, social, emotional, intellectual, spiritual, and environmental dimensions of health and their application to personal wellness.
- SPEX 211 Responding to Emergencies 5**
Provides students with the knowledge and skills to respond to injury sustained during training and sport performance, and to sustain life until medical help arrives following a sudden acute event as a result of training or performance. Instructional fee.
- SPEX 231 Sport and Exercise Physiology 5**
Introduces students to the acute responses and chronic adaptations of the body to the stresses of training using a mechanistic approach so that students first understand the details of how response and adaptation occur so they will be more likely to predict and control the response. Includes laboratory. Prerequisites: CHEM 121/131, CHEM 122/132, BIOL 200, and BIOL 210.
- SPEX 291 Special Topics 1 to 5**
- SPEX 296 Independent Study 1 to 5**
- SPEX 312 Nutrition for Sport and Exercise 5**
Addresses the nutritional requirements and practices of individuals involved in high-level human performance. Students will develop an understanding of nutrient metabolism required for training, the principles of a healthy competitive diet, the role of ergogenic aids, and the interaction of body composition, nutrition, and performance. Prerequisite: SPEX 231.
- SPEX 313 Biomechanics and Motor Learning 5**
Presents the mechanical principles pertinent to the understanding of human motion and the procedures for application of Newtonian mechanics to human movement analysis through creation of biomechanical models using three-dimensional and two-dimensional video and accompanying analog data. Includes associated laboratory. Prerequisite: High school physics or PHYS 105.
- SPEX 321 Care and Prevention of Athletic Injuries 5**
Develops the knowledge and skills necessary to prevent, evaluate, and remedy athletic injuries using short-term treatment techniques and modalities. Students become familiar with various protective devices, preventative strategies of taping, wrapping and padding, and short-term treatment actions including massage, ice, heat, and numerous electrical and mechanical devices. Includes associated laboratory. Prerequisite: SPEX 211.
- SPEX 322 Principles of Resistance and Metabolic Training 5**
Reviews and applies anatomical, biomechanical and physiological principles to develop general and sport-specific metabolic training programs that improve fitness and athletic performance. Includes associated laboratory. Prerequisites: SPEX 231, 312.

SPEX 331	Exercise for Rehabilitation	5
Provides students with the basic concepts of cardiac and pulmonary rehabilitation programs and the knowledge and skills needed to design, implement and assess progress of rehabilitation programs to return individuals to a healthy state, full functional fitness or athletic performance. Instructional fee.		
SPEX 391	Special Topics	1 to 5
SPEX 395	Internship	1 to 5
SPEX 396	Independent Study	1 to 5
SPEX 411	Fitness Testing and Technology	5
Provides a review of the theoretical constructs of exercise physiology and the hands-on training in testing technology to enable students to competently assess levels of fitness in low-risk to high-risk individuals. Includes the use of informed consent, health and wellness screening, and protocols for body composition, resting metabolic rate, cardiovascular and muscular fitness, flexibility, aerobic capacity, anaerobic power, and numerous sport-specific fitness tests, all presented to prepare students for the ACSM Health Fitness Instructor certification exam. Includes laboratory. Prerequisites: SPEX 231, 313.		
SPEX 421	Sport and Exercise Psychology	5
Examines the relationship of psychology to sport and exercise. Topics include application of learning principles, social psychology, personality variables, psychological assessment, sport performance, and exercise adherence. Includes practicum.		
SPEX 480	Sport, Film, and Celebrity	5
Modern American sport and film provide evidence that fantasy and reality have become inextricably intertwined in contemporary society. This course will examine the ways that sport has become a form of show business and athletes' lives have become an ever-larger source of escape for ordinary people. The course will also examine the way in which celebrity has superseded heroism in contemporary culture. Satisfies core interdisciplinary requirement.		
SPEX 481	The Soul of Sport	5
After consideration of why it is important to take sport seriously from a theological perspective, this course will consider sport in American culture both in its positive and negative, or graced and shadow sides. This course will examine issues relating to cultural perspectives of the body, athletic participation and personal growth, and ethics of sport. Satisfies core interdisciplinary requirement.		
SPEX 491	Special Topics	1 to 5
SPEX 495	Internship	1 to 5
SPEX 496	Independent Study	1 to 5

Theology and Religious Studies

Jeanette Rodriguez, PhD, Chair

Objectives

The Theology and Religious Studies curriculum prepares students to participate in creating a more just, humane, and sustainable world. Theology and Religious Studies contributes to the formation of students' personal and intellectual growth by developing the skills and knowledge they need to analyze and interpret the religious dimension of human life. In keeping with the Catholic and Jesuit identity of the university, Phase II courses equip students to identify and appreciate the presence and function of the sacred in human life, history, and the cosmos through engagement with the Catholic intellectual tradition. Phase III courses provide advanced studies in methodology, contemporary biblical scholarship, world religious traditions, interreligious dialogue, and ethical investigations.

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.

Degrees Offered

Bachelor of Arts

Majors Offered

Theology and Religious Studies

Theology and Religious Studies with Departmental Honors

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 and major/program grade point average of 2.00, including the courses listed below. With the exception of 200- and 300- level Theology and Religious Studies courses taken to fulfill Phase II and III Core requirements, courses taken to fulfill major requirements in Theology and Religious Studies may not simultaneously be used to fulfill core or college requirements. For example, a single course may not count as both a core interdisciplinary course and a major elective.

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument.	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5

HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above		5
Lab Science		5
Fine Arts (one approved 5 credit course; see course descriptions).....		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 to 5

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent 15

NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern 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

60 credits in theology and religious studies, including:

Introductory and Intermediate Courses

Choose one of the following World Religion courses: 5

THRS 230	Spiritual Traditions: East and West
THRS 231	Christian-Buddhist Dialogue
THRS 232	Christian-Muslim Dialogue
THRS 335	Topics in Symbol, Ritual, and Myth

Choose one of the following Hebrew Bible courses: 5

THRS 300	The Hebrew Bible
THRS 301	Torah: The Birth of a People
THRS 302	Women and the Hebrew Bible

Choose one of the following New Testament courses: 5

THRS 303	The Gospel of Jesus Christ
THRS 304	The Message of Paul
THRS 305	John: A Different Gospel
THRS 306	Women and the New Testament

Choose two of the following systematics courses: 10

THRS 200	God in Human Experience
THRS 201	Catholic Traditions
THRS 202	God and Evil
THRS 203	Themes of Christian Faith
THRS 204	Women and Theology
THRS 205	Theology of the Person
THRS 206	Christology
THRS 207	Church as Community
THRS 208	Sacraments: Doors to the Sacred
THRS 209	Jesus and Liberation
THRS 310	Rethinking God

Choose one of the following ethics courses: 5

THRS 220	Faith and Morality
THRS 221	Contemporary Ethical Issues
THRS 222	Theology of Peace
THRS 320	Catholic Social Teaching
THRS 321	God, Money, and Politics
THRS 322	Human Sexuality: The Challenge of Love
THRS 323	Biomedical Ethics: The Giving and Taking of Life
THRS 324	Religion and Ecology

Advanced Courses

Choose one of the following two courses: 5

THRS 407	Interpreting the Hebrew Bible
THRS 414	Interpreting the Synoptics

Complete the following:

THRS 401	Theology of Religions	5
THRS 419	Early Christian Theology.	5
THRS 420	Medieval and Reformation Theology.....	5
THRS 428	Modern and Contemporary Theology	5
THRS Elective (approved by advisor)		*5

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.

Bachelor of Arts

Major in Theology and Religious Studies with Departmental Honors

The honors major in theology and religious studies offers an opportunity for motivated and capable students to engage in more extensive interaction with faculty and to complete challenging individual research projects that will further their personal and professional goals.

Application to the major: To be accepted to the program, students must have a cumulative and major/program grade point average of 3.50. Interested students should

apply to the department Honors Coordinator in spring quarter of the junior year or early fall quarter of the senior year. A Change of Major, Degree or Specialization form must be submitted to the Office of the Registrar upon acceptance.

Completion of the major: During senior year, departmental honors students will complete 10 credits of independent study and write a 25-40 page thesis under the direction of a faculty member. The thesis is to be presented orally in an appropriate context to be determined by the Departmental Honors Coordinator. The ten credits must be taken as THRS 477 Theology and Religious Studies Honors Directed Reading and THRS 479 Theology and Religious Studies Honors Thesis Supervision. In order to complete the requirements for departmental honors and receive a notation to that effect on their transcripts, students must earn 70 credits in Theology and Religious Studies courses (10 more than the usual major requirement), earn a cumulative and major/program grade point average of 3.50, and receive an A or A- for THRS 479 Theology and Religious Studies Honors Thesis Supervision. In addition to the bachelor of arts major in theology and religious studies requirements, the honors major also includes:

Ten credits in departmental honors, including:

THRS 477	Honors Directed Reading.....	5
THRS 479	Honors Thesis Supervision	5

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

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 advisor 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 (84-1) for more information.

Theology and Religious Studies Courses

Courses numbered in the 200s are Core Phase II; those in the 300s are Phase III and each has a Phase II Religious Studies prerequisite. Advanced courses for majors and minors as well as interdisciplinary core courses carry 400 numbers. See core curriculum section of this *Bulletin*. Courses that fill requirements for theology and religious studies minors are designated by the following code:

B	Biblical Studies
S	Systematic Theology
H	Historical Theology
TE	Theological Ethics
WR	World Religions
SP	Spirituality

Core Phase II: Person in Society—Religious Experience

Phase II courses provide students with a theological framework for thinking critically about and reflecting on religious traditions and experience. Within this larger context, students will be introduced to the Catholic theological tradition with an emphasis on the nature of the human person in society.

NOTE: Sophomore standing is required for enrollment in THRS 200 level courses. If you have already taken this course under its previous number, you may not take it again and receive credit for it.

THRS 200 **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.

THRS 201 **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.

THRS 202 **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, fascism, and Third World struggles. S.

THRS 203 **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.

THRS 204	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.		
THRS 205	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.		
THRS 206	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.		
THRS 207	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.		
THRS 208	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. S.		
THRS 209	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.		
THRS 220	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.		
THRS 221	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.		

- THRS 222 Theology of Peace** 5
A theological investigation into the four major Christian responses to issues of war and peace: pacifism, just-war theory, nonviolent resistance and, most recently, "just peace-making." Resources include the Bible, recent reflections on the nature of war, and historic statements by Catholic popes, US Catholic Bishops, historic peace Churches, World Council of Churches, etc. Specific cases of resistance considered include Oscar Romero and the martyred Jesuits of El Salvador. TE.
- THRS 230 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. Attention to Catholic perspectives on interreligious dialogue. WR.
- THRS 231 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. Attention to Catholic perspectives on interreligious dialogue. WR.
- THRS 232 Christian-Muslim Dialogue** 5
The objective of the course is to study and cultivate the human ability to cross cultural and religious boundaries. Its subject matter is the encounter of two major monotheistic religions: Christianity and Islam. Topics include: comparative themes in the Christian Bible and the Qur'an, the lives and teachings of Jesus of Nazareth and the prophet Muhammad, as well as contemporary ethical and political issues in these two traditions. Attention to Catholic perspectives on interreligious dialogue. WR.
- THRS 291-293 Special Topics** 2 to 5

Core Phase III: Responsibility and Service—Theological Reflection

Phase III courses build on foundational theological frameworks. Utilizing diverse methods, these courses critically examine contemporary biblical scholarship, world religious traditions, interreligious dialogue, and ethical issues. Phase III courses explore the implications of theological understanding for responsibility, service, and justice in the world.

NOTE: All 300-level courses have a prerequisite of a Phase II 200-level theology and religious studies course and sophomore standing. If you have already taken this course under its previous number, you may not take it again and receive credit for it.

- THRS 296 Directed Study** 1 to 5
- THRS 300 The Hebrew Bible** 5
Study of central traditions and texts of the Hebrew Bible in their historical, cultural, political, and religious contexts. Extensive reading in the narrative and prophetic books and the Psalms, and an intensive study of selected texts, with attention to their role as foundational in the Jewish and Christian religions, both traditionally and recently. B.

- THRS 301 Torah: The Birth of a People** 5
Study of the Torah or Pentateuch, the core of the Hebrew Bible. Stories of world creation and flood, of Israel's ancestors, of slavery and liberation, of covenant and wandering. Critical reflection on the use of these stories in both Jewish and Christian traditions and in the theologies of contemporary marginalized groups. B.
- THRS 302 Women and the Hebrew Bible** 5
Investigation of a selection of narrative, legal, prophetic, and wisdom texts dealing with themes relating to women's lives: the frequent absence or trivialization of women; images of women—both individuals and types—as victims, as evil, as strong, and as loyal; and gendered imagery of the divine. Secondary literature will include interpretations by Jewish and Christian women around the world as well as white women and women of color in the United States. B.
- THRS 303 The Gospel of Jesus Christ** 5
Introductory study of the New Testament with a focus on the Jewishness of Jesus of Nazareth; his unique view of the relationship between God, human persons, communities, and the cosmos as a revolutionary perspective on human identity and freedom. The literary forms in which the Christian community proclaimed him. Appropriations of the Jesus tradition from the diverse perspectives of culture, gender, class, and race. B.
- THRS 304 The Message of Paul** 5
Paul's letters as the earliest New Testament writings of Christian faith and experience; his evolving understanding of Jesus; influence of the believing community and its culture on Paul's theology; dominant themes and ethical perspectives within the letters, relating especially to modern concerns and issues (e.g., Jewish-Christian dialogue, ministry, sexuality). B.
- THRS 305 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.
- THRS 306 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.
- THRS 310 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.

- THRS 311 Latin American Liberation Theology** 5
This course will examine the subject and method of Latin American liberation theology, which offers a dynamic approach to the issues of faith, human freedom, and liberation. This course explores and deepens our understanding of human choice, evil, salvation, from the lived faith experience in Latin America. It examines the oppression and exploitation that characterize Latin America, both past and present, and considers the challenges liberation theologians pose to all Christians. S.
- THRS 312 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.
- THRS 320 Catholic Social Teaching** 5
This course examines the dynamic relationships between the gospel messages of peace and justice, love and liberation, and contemporary social and political issues. We will emphasize the general frameworks of social analysis and will utilize the biblical accounts of the Judeo-Christian communities and the tradition of Catholic Social Teachings. The basic component of this tradition is the question of social justice in pursuit of the common good. TE.
- THRS 321 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.
- THRS 322 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.
- THRS 323 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.
- THRS 324 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.

- THRS 325 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.
- THRS 330 World Religions in America 5**
 This course will phenomenon of religion and study religious traditions as communities shaped by the past and continually evolving. The religious traditions studied in this course include Hinduism, Buddhism, Judaism, and Islam. A key component of this course includes a study of contemporary religion in the United States. Students will be introduced to the diversity of religious traditions in the U.S. by exploring on their own a contemporary faith community based in multi-ethnic and multi-religious Seattle. Students will study the main tenets and practices of each religious tradition and have a general understanding of the historical development and main schools of thought characterizing the traditions. Emphasis will be placed on the internal diversity found within living traditions. WR.
- THRS 331 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.
- THRS 332 Introduction to Buddhism 5**
 This course will consider the many ways that Buddhists have defined and engaged with the "Three Jewels" of Buddhism: the Buddha, the Dharma (the teaching) and the Sangha (the Buddhist community). Using this framework, students will examine doctrines, practices, and cultures in different parts of the Buddhist world in a variety of historical periods and reflect upon the many ways people have lived and continue to live as Buddhists. Special focus will be placed on the particular dimensions/diversity of Buddhist thought and practice unique to Theravādin Buddhism, Pure Land Buddhism, and Tibetan Buddhism. Students will engage in close interpretive readings of a wide range of Buddhist materials including Buddhist sutras ("scriptures"), anthropological studies, autobiographical and biographical works, and modern guides to Buddhist thought and practice written by and for practitioners. WR.
- THRS 333 Buddhism and Gender 5**
 This course examines how male and female imagery and gender roles are constructed and transformed in various Buddhist traditions—Theravada (Southeast Asia), Mahayana (China, Japan and Korea) and Vajrayana (Tibet). The course explores how women who have traditionally been excluded from full participation in monastic life in various sects of Buddhism, have nonetheless made significant spaces and contributions to the religious tradition. Students will examine how traditional Buddhism may have placed limits on the full participation of women and how, in turn, women throughout history have sought to recreate and revise these teachings in order to develop their own subjectivities as active agents in the Buddhist world. By examining Buddhism in the contemporary world, particularly in Seattle's Asian American communities, students will be introduced to the multi-ethnic and racial diversity that comprises Seattle. WR.

- THRS 334 Asian Religions 5**
 An exploration of some major religious traditions of Southeast and East Asia including Confucianism, Taoism, Hinduism and Buddhism along with their intersections with indigenous traditions. Classical traditions of Confucianism and Taoism which influence much of the later traditions of Buddhism. Hinduism in India, noting historical developments throughout the regions of India and the beginnings of Buddhism in India, its movement to China and finally Tibet. Prerequisite: 200 level theology and religious studies course. WR.
- THRS 335 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.
- THRS 340 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 life-cycle. Study of the Gospel story of Jesus as paradigm of authentic human life. SP.
- THRS 341 Ignatian Spirituality..... 5**
 In this course, students will learn about some of the primary characteristics of spirituality in the tradition of Ignatius of Loyola and how this spirituality has shaped the approach of Jesuits and others to education, the arts, interreligious dialogue, and issues of social justice. Ignatian spirituality as a resource for lay Christians and for decision making in the contemporary context will be emphasized. SP.
- THRS 391-393 Special Topics 2 to 5**
- THRS 396 Directed Study 1 to 5**

Major Courses

- THRS 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.
- THRS 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.

THRS 414	Interpreting the Synoptics	5
Discussion of the synoptic problem; use of historical (source, form, redaction 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.		
THRS 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.		
THRS 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.		
THRS 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.		
THRS 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.		
THRS 470	Internship in Ministry	2
Application of the learning and skills developed in THRS 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: THRS 465. SP.		
THRS 477	Honors Directed Reading	5
THRS 479	Honors Thesis Supervision	5
THRS 480-483	Interdisciplinary Core Course	3 to 5
Title and content may change each term.		
THRS 491-493	Special Topics	2 to 5
THRS 496	Independent Study	1 to 5
THRS 497	Directed Reading	1 to 5
THRS 498	Directed Research	1 to 5

Women Studies

María Bullón-Fernández, PhD, Director

Objectives

The program of courses which comprises the women studies curriculum 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.

Students can take Women Studies as a stand-alone major or they may choose to take an additional, complementary major. The program is designed in such a way that this is feasible within four years.

Degree Offered

Bachelor of Arts

Major Offered

Women Studies

Minor Offered

Women Studies

Bachelor of Arts Major in Women Studies

In order to earn a bachelor of arts degree with a major in Women Studies, students must complete a minimum of 180 quarter credits with a cumulative grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Writing	5
PHIL 110	Introduction to Philosophy and Critical Thinking	5
HIST 120	Origins of Western Civilization	5
ENGL 120	Introduction to Literature	5
MATH 107 or 110 or above	.....	5
Lab Science	.....	5
Fine Arts (one approved 5-credit course; see course descriptions)	.....	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 to 5

II. College of Arts and Sciences Requirements

Modern Language 115, 125, 135, or equivalent	15
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NOTE: All students with a major in the College of Arts and Sciences must demonstrate competency through the 135 level in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Courses used to satisfy the College of Arts and Sciences modern language requirement may not be used to fulfill Women Studies major requirements.

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

III. Major requirements

55 credits including:

WMST 101 Introduction to Women Studies	5
WMST 381 Feminist Methodologies	5
WMST 382 Feminist Theories	5
WMST 401 Women Studies Seminar	5
WMST 480 Core Interdisciplinary approved by the major	5

IV. Major Electives

Choose 30 credits from:	30
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(See departmental listings for descriptions.)

CMJR 480 Gays, the Media, and Politics (or Sex, Myth, and Media) ...	5
CRJS 405 Gender, Race and Crime	5
ENGL 361 Literature of India	5
ENGL 362 African Literature	5
ENGL 364 Post-Colonial Literature	5
ENGL 439 Medieval Women and Writing	5
ENGL 441 International Women's Writing	5
HIST 327 History of Motherhood	5
HIST 328 US Women's History	5
HIST 329 Gender and Sexuality in U.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 345	Ethics	5
	(Only sections designated X:WS in the remarks column of the quarterly schedule of classes)	
PHIL 373	Gender and Social Reality.....	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)	
THRS 204	Women and Theology	5
THRS 302	Women and the Hebrew Bible	5
THRS 306	Women and the New Testament	5
WMST 385	Latin American Women's Literature	5
WMST 388	Emerging Subjectivities in Chican@ Literature	5

NOTE: Among the electives no more than 10 credits can be taken in any one discipline and no less than 20 credits need to be in upper-division courses.

Special topics courses will be added as departments propose new offerings and they will be identified each term in the schedule of classes.

Several Women Studies courses have been identified as satisfying core 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 Women Studies

In order to earn a minor in women studies, students must complete 30 credits in women studies, with a minor/program grade point average of 2.50, including:

WMST 401	Women 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.

NOTE: As soon as a student decides to pursue a minor in women studies, she or he should contact the director. In consultation with the director, students will choose an advisor and begin to design programs that fit their specific interests and best complement their majors. The advisor 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 policy (84-1) for minors for more information.

Women Studies Courses

- WMST 101 Introduction to Women Studies..... 5**
A survey of women in society and feminist methods and concepts. Major themes include identity, work, community, and citizenship as well as intersections between gender and race, class, age, nationality, ethnicity, and sexuality.
- WMST 296 Directed Study..... 1 to 5**
- WMST 381 Feminist Methodologies..... 5**
Overview of modern philosophy of science as well as of traditional disciplinary methods and study of interdisciplinary feminist critiques of such methods. Analysis of methodological approaches to knowing the 'other' including participant observation, discourse and narrative analysis, etc.
- WMST 382 Feminist Theories..... 5**
In-depth study of key theorists, issues, themes and debates in past and current feminist theories, including critical race theory, postcolonial theory, modern and postmodern theories, with particular attention to intersections of gender with sexuality, race, national origin, and class, among others. Cross-listed with SOCL 410.
- WMST 385 Latin American Women's Literature..... 5**
A study of the main female literary voices both established and emerging throughout the last five centuries in Latin America. Some of these include Sor Juana Inés de la Cruz, Juana de Ibarbourou, Alfonsina Storni, Delmira Agustini, Gabriela Mistral, Rosario Castellanos, Rosario Ferré, Nancy Morejón, Emma Sepúlveda, Elena Poniatowska, Pía Barros, Marjorie Agosín, Elena Garro, Margo Glantz, Cristina Peri-Rossi, Clarice Lispector, Alicia Partnoy.
- WMST 388 Emerging Subjectivities in Chican@ Literature 5**
A study of established and emerging Chicana/o authors from the 1960's to the present. Some of the following canonical authors will be included in the reading list: Tomás Rivera, Rolando Hinojosa, Helena María Viramontes, Denise Chávez, Cherrie Moraga, Alejandro Morales, Kathleen Alcalá, Lucha Corpi, Benjamin Saenz, Demetria Martínez, Rigoberto Gonzalez, Franciso Alarcón, Norma Cantú.
- WMST 391-393 Special Topics 2 to 5**
- WMST 396 Directed Study..... 1 to 5**
- WMST 401 Women 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 the women studies minor. Prerequisite: senior standing, women studies majors or minors only.
- WMST 480-483 Interdisciplinary Core Course..... 3 to 5**
Title and content vary.
- WMST 496 Independent Study..... 1 to 5**

Albers School of Business and Economics

Joseph M. Phillips, Jr., PhD, Dean

Teresa Ling, PhD, Assistant Dean

Terry Foster, JD, Assistant Dean

Robert House, PhD, Director of Undergraduate Programs

Mary Carpenter, MEd, Director of Graduate Programs

Mary Lou Moffat, BA, Director of Albers Placement Center

Barbara Hauke, MBA, Director of Marketing and External Relations

Department Chairs

Accounting: Susan Weihrich, PhD

Economics: Barbara Yates, PhD

Finance: Fiona Robertson, PhD

Management: Ben Kim, PhD

Marketing: Carl Obermiller, PhD

Professorships and Endowed Chairs

Robert D. O'Brien Chair in Business: Jot Yau, PhD

The Boeing Frank Schrontz Endowed Chair of Professional Ethics: John Dienhart, PhD

Dr. Khalil Dibbe Endowed Chair in Finance: Peter Brous, PhD

Thomas F. Glead Chair: TBD

Lawrance K. Johnson Endowed Chair of Entrepreneurship: Leo Simpson, PhD

Centers

Center for E-Commerce and Information Systems: Ben Kim, PhD, Director

The Entrepreneurship Center: Steve Brilling, Executive Director

Albers Center For Global Business: David Reid, PhD and Peter Raven, PhD, Directors

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 nonprofit 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 The Association to Advance Collegiate Schools of Business – International.

Organization

The Albers School has two principal divisions, undergraduate and graduate studies. Undergraduate majors are offered in eight 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 accounting, 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 Economics with a

Specialization in International Economic Development

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

Double Concentration

Major in two program areas

Minors Offered

Accounting

Business Administration

E-Commerce and Information Systems

Economics

Finance

International Business

International Economic Development

Certificate of Post-Baccalaureate Studies

Accounting
Business Administration
Business Economics
Finance
International Business

Graduate Degrees and Programs Offered

See *Graduate Bulletin* for:

Leadership Executive Master of Business Administration (L-EMBA)
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 Executive Leadership
Certificate of Graduate Studies in Leadership Formation
Certificate of Post-MBA Studies
Certificate of Post-MIB Studies
Certificate of Post-MPAC Studies
Certificate of Post-MSF 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 eight major fields is required. No course in the major may be taken through independent study or internship. Business courses appear under the prefixes ACCT, BETH, BLAW, ECIS, ECON, FINC, INBU, MGMT, MKTG and OPER.

Pre-Business Option

Students who are qualified academically for the business school but are undecided about a major may elect the pre-business option. This choice allows the students to be housed in the Albers School while they progress through university core and business foundation courses. By the end of the students' sophomore year, they should have decided on a major area of study and have submitted proper change of major paperwork. The Albers School currently has advisors who work specifically with pre-business students to help them explore the majors available.

Pre-business students must maintain the minimum 2.25 business and cumulative GPA required of students with declared business majors.

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 advisors 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 advisors who can assist students with degree requirements, policy questions, and campus resources. First-quarter registrants, freshmen, and students on academic probation are required to meet with an advisor 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. **Career Advising:** Junior and senior students are assigned a faculty member in their major area to discuss career paths and to help with the selection and sequencing of major requirements and electives.

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, job placement, 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 workshops (e.g. resume, interviewing techniques)
- Career Expo (campus-wide career fair sponsored by the Career Development Center) and other placement services on campus
- Library resources for the job search
- Company files

- Networking events with Albers alumni
- e-Recruiting—online internship and job listings for Seattle University students and alumni
- On-campus recruiting

Admission Requirements

First-Time Freshman

Students entering Seattle University, as first-time freshman, 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 and economics courses must be graded a minimum of C (2.00 on the decimal system).

General Program Requirements

A minimum of 180 credits is required for a bachelor degree in business or economics, including 80 hours of non-business 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) must earn at least 50 credits (55 hours for accounting majors) of business courses at Seattle University. Forty of these credits (45 of these credits for accounting majors) must be taken at the upper-division (300-400) level. Twenty credits 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 15 credits taken by an undergraduate non-matriculated student may be applied toward a baccalaureate degree in the Albers School of Business and Economics.

Double Major

Students pursuing a BABA degree may only earn a double major 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 a double major.

Academic Progression and Advance Standing in the Albers School

- To be admitted to advanced standing in a bachelor of arts in business administration (BABA) major, at least 90 credits and a cumulative and business grade point average of 2.25 is required. Also, BABA students must have completed MATH 130 or the equivalent, ECON 260, and at least four of these other required lower-division courses: ACCT 230, 231, MGMT 280, and ECON 271 and 272. The grade point average in these courses must be at least 2.25. To be admitted to advanced standing in the bachelor of arts in economics program, at least 90 credits and a cumulative and business grade point average of 2.25 is required. Also BAE students must have completed MATH 130 or the equivalent, and ECON 271, 272, and 260. The remaining two required lower-division courses must be completed by the end of the second quarter of their junior year.
- No student is permitted to take business courses numbered 300 or above prior to admission to advanced 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.
- Both BABA and BAE students must maintain a 2.25 cumulative grade point average and a 2.25 business cumulative grade point average.
- 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 130 and ECON 271.
- 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.
- 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

BABA and BAE 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.

- If the cumulative grade point average or the grade point average in business and economic courses (including mathematics) falls below 2.25 for three or more successive terms (including summer, if registered) the student is subject to dismissal.
- Anyone who has completed more than 120 credits of degree requirements and has been dismissed ordinarily will not be considered for readmission.
- 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 BAE 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

Susan Weihrich, PhD, Chair

Objectives

Professionally trained accountants serve in diverse roles in private business, government, nonprofit 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

Minor 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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5 credit course; see course descriptions)		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 (BETH 351/PHIL 351 required)		*5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

*Major requirement must be graded C- or better.

II. ASBE Business Foundation Requirements*

70 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
MGMT 280	Communication for Business	5
ECON 310	Quantitative Methods and Applications	5
ECIS 315	Introduction to Information Systems and E-Commerce	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

III. Major Requirements*

35 credits, including:

ACCT 301	Accounting Information: Systems, 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
ACCT 435	Auditing I	5

IV. Additional Requirements

General electives to total 180..... 10

With permission of the chair of the accounting program, students with an undergraduate accounting degree from Seattle University who have taken ACCT 436/539 and ACCT 413/540 may waive six elective credits of their MPAC program. These electives will satisfy course requirements toward both the undergraduate degree in accounting and the master of professional accounting.

NOTE: 1. MGMT 280 must be taken prior to or simultaneously with ACCT 301. 2. Accounting majors must normally complete 55 credits of business courses at Seattle University; 45 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 must earn a C- grade or better.

Business Economics

Barbara Yates, PhD, Chair

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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5 credit course; see course descriptions)		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 (BETH 351/PHIL 351 required)		*5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

II. ASBE Business Foundation Requirements*

70 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
MGMT 280	Communication for Business	5
ECON 310	Quantitative Methods and Applications	5
ECIS 315	Introduction to Information Systems and E-Commerce	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

III. Major Requirements*

25 credits, including:

ECON 374	Intermediate Microeconomics	5
ECON	Electives.....	20

Choose from: upper-division ECON courses, excluding ECON 489. Either ECON 370 or 470 may be included but not both. FINC 343 may be included.

IV. Additional Requirements

General electives to total 180..... 20

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

Diane Lockwood, PhD, Chair

Objectives

Information systems (IS) and the Internet are transforming virtually all types of human activities and creating a new global business environment. Understanding the impacts of IS and the Internet 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 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 Offered

E-Commerce and Information Systems

Minor Offered

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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5-credit course; see course descriptions)		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 (BETH 351/PHIL 351 required)	*5
Theology and Religious Studies Phase III (300-399)	5
Interdisciplinary satisfied within major	
Senior Synthesis satisfied by MGMT 489	

*Major requirements must earn a C- grade or better.

II. ASBE Business Foundation Requirements*

70 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
MGMT 280	Communication for Business	5
ECON 310	Quantitative Methods and Applications	5
ECIS 315	Introduction to Information Systems and E-Commerce	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

III. Major Requirements*

25 credits, including:

ECIS 320	Fundamentals of Programming in Business	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

IV. Additional Requirements

General electives to total 180	20
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* Major requirements and must earn a C- grade or better.

Economics

Barbara Yates, PhD, Chair

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 private and public sectors. 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 business, government, 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

Economics with a Specialization in International Economic Development

Minor Offered

Economics

International Economic Development

Bachelor of Arts in Economics

Major 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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5 credit course; see course descriptions).....		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 (BETH 351/PHIL 351 required).....		*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.

II. Major Requirements*

65 credits, including:

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 489. FINC 343 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..... 45 to 47

ACCT 230 Principles of Financial Accounting and MGMT 280

Communications for Business are recommended general electives.

NOTE: Internships or independent studies may not satisfy major requirements.

*Major requirements must earn a C- grade or better.

Specialization in International Economic Development

In order to earn the bachelor of arts degree in economics with a specialization in international economic development, students must complete a minimum of 180 quarter credits with a cumulative grade point average of 2.25, including the following:

I. Core Curriculum Requirements

Same as bachelor of arts in economics

II. Major Requirements*

65 credits, including:

ECON 260	Business Statistics.....	5
ECON 271	Principles of Economics-Macro.....	5
ECON 272	Principles of Economics- Micro.....	5
ECON 310	Quantitative Methods and Application	5
ECON 330	International Economic Events and Business Decisions	5
ECON 374	Intermediate Microeconomics	5
ECON	Electives.....	30

Electives in International Economic Development..... 15 to 20

Choose from: ECON 325, 375, 376, 378, 472, 477, 479. Students may not count both ECON 325 and 472 toward the specialization. With prior approval, one Seattle University economics study tour course to a developing country can count toward the specialization.

General Economic Electives 10 to 15

Choose from: upper-division ECON courses, excluding ECON 489 and those listed for International Economic Development. FINC 343 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 chair)

III. Additional Requirements

Same as bachelor of arts in economics.

*Major requirements must earn a C- grade or better.

IV. Supplemental Activities

Choose one of the following activities:

- An internship with a government agency or NGO involved with international economic development, approved by the Department of Economics.
- A minimum of one quarter (15 quarter credits) of related studies in an acceptable program in a developing country. The country and the course work must be approved prior to study abroad by the Albers School and Seattle University.
- Participation in a Seattle University sponsored international study tour or campus ministry tour to a developing country.
- Participation in Seattle University's International Development Internship Program.

Finance

Fiona Robertson, PhD, Chair

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 Offered

Finance

Minor Offered

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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5 credit course; see course descriptions)		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 (BETH 351/PHIL 351 required).....	*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.

II. ASBE Business Foundation Requirements*

70 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
MGMT 280	Communication for Business	5
ECON 310	Quantitative Methods and Applications	5
ECIS 315	Introduction to Information Systems and E-Commerce	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

III. Major Requirements*

25 credits, including:

FINC 342	Intermediate Corporate Finance.....	5
FINC 343	Financial Institutions and Markets	5
FINC 344	Investments and Portfolio Theory.....	5
FINC	Electives.....	10

Choose from upper-division finance courses

NOTE: Students are advised to take the two finance major electives from FINC 441, 445, 446, or 448 if they plan to pursue a career in corporate finance; or from FINC 445, 446, 452, 491 (Investment Practicum) if they plan to pursue a career in investments. Internships and independent studies may not satisfy a major requirement.

IV. Additional Requirements

General electives to total 180.....	20
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Additional accounting and economics courses recommended.

*Major requirements must earn a C- grade or better.

Individualized Major in Business Administration

Robert House, PhD, Director of Undergraduate Programs

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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5 credit course; see course descriptions)		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 (BETH 351/PHIL 351 required)		*5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

*Major requirements must earn a C- grade or better.

II. ASBE Business Foundation Requirements*

70 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
MGMT 280	Communication for Business	5
ECON 310	Quantitative Methods and Applications	5
ECIS 315	Introduction to Information Systems and E-Commerce	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

III. 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 advisor's approval. At least 10 of the credits must be 400-level courses.

IV. Additional Requirements

General electives to total 180..... 20

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

Peter Raven 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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5 credit course; see course descriptions)		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 (BETH 351/PHIL 351 required)		*5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major		
Senior Synthesis satisfied by MGMT 489		

*Major requirements must earn a C- grade or better.

II. ASBE Business Foundation Requirements*

70 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
MGMT 280	Communication for Business	5
ECON 310	Quantitative Methods and Applications	5
ECIS 315	Introduction to Information Systems and E-Commerce	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

III. Major Requirements*

25 upper-division credits, plus supplemental activities:

MGMT 486	International Management	5
Electives	(Choose two from BLAW 476, FINC 446, MKTG 456)	10
Electives	Business/economics courses with an international focus.	10

IV. Additional Requirements

General electives to total 180..... 20

Supplemental activities may satisfy general elective requirements.

V. Supplemental Activities

Choose two activities from the following four:

- Demonstrate competency through the 135 level in a language other than English. 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 Modern Language Competency Examination. See the Modern Languages Department for details on the examinations. Latin and other languages not in use will not be accepted.
- A 3-5 credit internship with a company involved in international business in the Seattle area, approved by the international business director.
- 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.
- International studies minor.

NOTE: Internships and independent studies may not be used to satisfy a major requirement.

*Major requirements must earn a C- grade or better.

Management

Ben Kim, PhD, Chair

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 nonprofit sector. People who plan to establish their own firms or to become part of a family-owned firm also pursue a management major. Course work 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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5 credit course; see course descriptions)		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 (BETH 351/PHIL 351 required).....	*5
Theology and Religious Studies Phase III (300-399)	5
Interdisciplinary satisfied within major	
Senior Synthesis satisfied by MGMT 489	

*Major requirements must earn a C- grade or better.

II. ASBE Business Foundation Requirements*

70 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
MGMT 280	Communication for Business	5
ECON 310	Quantitative Methods and Applications	5
ECIS 315	Introduction to Information Systems and E-Commerce	5
MGMT 320	Global Environment of Business	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

III. Major Requirements*

25 credits, including:

MGMT 383	Human Resource Management	5
MGMT 471	Adventure Based Leadership Seminar	5
MGMT	Electives.....	15

Choose from: MGMT 382, 479, 485, 486, 491, OPER 466, or other approved 300- 400-level management courses.

IV. Additional Requirements

General electives to total 180.....	20
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NOTE: Internships and independent studies may not be used to satisfy a major requirement.

*Major requirements must earn a C- grade or better.

Marketing

Carl Obermiller, PhD, Chair

Objectives

Marketing is the process of delivering consumer satisfaction through the creation and exchange of products. 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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 130	Elements of Calculus for Business (or MATH 134)	*5
Fine Arts (one approved 5 credit course; see course descriptions)		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 (BETH 351/PHIL 351 required)		*5
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major.		
Senior Synthesis satisfied by MGMT 489		

*Major requirements must earn a C- grade or better.

II. ASBE Business Foundation Requirements*

70 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
MGMT 280	Communication for Business	5
ECON 310	Quantitative Methods and Applications	5
ECIS 315	Introduction to Information Systems and E-Commerce	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

III. Major Requirements*

25 credits, including:

MKTG 351	Buyer Behavior	5
MKTG 451	Marketing Research	5
MKTG	Electives	15

Choose from: MKTG 352, 353, 354, 356, 452, 456, 491, or other approved 300- or 400-level marketing courses.

IV. Additional Requirements

General electives to total 180..... 20

NOTE: 1. ECON 374 and 472 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.

Minor in Accounting

To earn a minor in accounting, students must complete 30 credits of accounting:

ACCT 230	Principles of Accounting I (Financial)	5
ACCT 231	Principles of Accounting II (Managerial)	5
ACCT 301	Accounting: Information Systems, Tools and Concepts	5
ACCT 311	Intermediate Accounting I	5
ACCT	Electives 300-400 level (see advisor)	10

NOTE: Courses used toward a minor in accounting are subject to the same grade minimums as those in an accounting major. See policy for minors (84-1) for more information.

Minor in Business Administration

To earn a minor in business administration, students must complete a set of six business courses beyond the non-business prerequisite courses in mathematics. 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)
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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*

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, or a BSCS with business specialization, may not minor in business administration. See policy for minors (84-1) for more information. 4. Classes marked with an * require additional course prerequisites beyond those required in the minor.

Minor in E-Commerce and Information Systems

To earn a minor in E-Commerce and Information Systems, students must complete 30 credits comprised of two required business classes, three required ECIS classes, and one ECIS elective.

Business Courses

MKTG 350	Introduction to Marketing	5
Choose one of the following two classes:		5
MGMT 320	Global Environment of Business	
ECON 330	International Economic Events and Business Decisions	

E-Commerce and Information System Courses

ECIS 315	Introduction to Information Systems and E-Commerce	5
ECIS 320	Fundamentals of Programming in Business	5
ECIS 466	Database Systems In Business	5
Choose one of the following three classes:		5
ECIS 462	Internet Marketing	
ECIS 464	Object Oriented Modeling in Business	
ECIS 469	Business Data Communications	

NOTE: Courses used toward a minor in ECIS are subject to the same grade minimums as those in an ECIS major. See policy for minors (84-1) for more information.

Minor in Economics

To earn a minor in economics, students must complete 30 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 advisor)	10

NOTE: 1. Courses used toward a minor in economics are subject to the same grade minimums as those in an economics major. 2. ECON 489 will not satisfy the upper division economics electives. 3. FINC 343 will not count towards an economics minor. See policy for minors (84-1) for more information.

Minor in Finance

To earn a minor in finance, students must complete four prescribed finance courses and two prescribed business classes beyond the non-business prerequisite courses in mathematics. The mathematics and the economics courses could fulfill university core requirements.

Prerequisite Courses

Math 118	College Algebra (or Math 120)
Business Courses:	
ACCT 230	Principles of Accounting I
ECON 271	Principles of Economics – Macro

Finance Courses

FINC 340	Business Finance
FINC 342	Intermediate Corporate Finance
FINC 343	Financial Institutions and Markets
FINC 344	Investments

NOTE: Courses used toward a minor in finance are subject to the same grade minimums as those in a finance major. See policy for minors (84-1) for more information

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

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

MGMT 486	International Management.....	5
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Choose five courses from the following options: 25

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:

- Demonstrate competency through the level of 135 in a language other than English. 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 Modern Language Competency Examination. Latin and other languages not in use will not be accepted.
- A five-credit internship with a company involved in international business approved by the Albers Placement Center.
- An international study tour sponsored by the Albers School of Business and Economics.
- 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.

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 (84-1) for more information.

Minor in International Economic Development

To earn a minor international economic development, students must complete 30 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	Electives	15

Choose from: ECON 325, 375, 376, 378, 472, 477, or 479. Students may not count both ECON 325 and 472 toward the minor. With prior approval, one Seattle University economics study tour course to a developing country can count toward the minor. See policy for minors (84-1) for more information.

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 6 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 course work 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 College 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 chair of teacher education in the College 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: Completed at least 30 credits. (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 and sophomore standing. (fall, winter, spring)
- ACCT 296 Directed Study 1 to 5**
- ACCT 301 Accounting: Information Systems, Tools and Concepts 5**
 Study of managing accounting processes with internal controls. Develop and implement accounting processes and design controls to ensure those processes are completed accurately. Utilize different software including Great Plains, Excel and the Internet for accounting functions. Assignments will expand analytical, writing, and computer skills. Prerequisites: ACCT 231, MGMT 280 (may be taken concurrently), at least a B- (2.7) average for Principles of Accounting classes, advanced standing in the Albers School.
- ACCT 311 Intermediate Financial Accounting I 5**
 These intermediate financial accounting courses are designed to prepare the student for a career in professional accounting. Upon conclusion of the sequence the student should: (1) understand the issues involved in accounting policy choice; (2) understand the process and the conceptual framework according to which accounting standards are set in the United States; (3) have in-depth knowledge of accounting for transactions, events and adjustments affecting assets, liabilities, shareholders' equity, revenues, expenses, gains and losses. Prerequisite: Accounting majors and minors: ACCT 301. Other business majors who have junior standing and have completed ACCT 231 or equivalent may take ACCT 301 or may gain entrance through a waiver examination and permission of the chair of accounting.
- ACCT 312 Intermediate Financial Accounting II 5**
 These intermediate financial accounting courses are designed to prepare the student for a career in professional accounting. Upon conclusion of the sequence the student should: (1) understand the issues involved in accounting policy choice; (2) understand the process and the conceptual framework according to which accounting standards are set in the United States; (3) have in-depth knowledge of accounting for transactions, events and adjustments affecting assets, liabilities, shareholders' equity, revenues, expenses, gains and losses. 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 advanced standing in the Albers School.
- ACCT 396 Directed Study** 1 to 5
- ACCT 413 Intermediate Financial Accounting III** 5
These intermediate financial accounting courses are designed to prepare the student for a career in professional accounting. Upon conclusion of the sequence the student should: (1) understand the issues involved in accounting policy choice; (2) understand the process and the conceptual framework according to which accounting standards are set in the United States; (3) have in-depth knowledge of accounting for transactions, events and adjustments affecting assets, liabilities, shareholders' equity, revenues, expenses, gains and losses. Prerequisites: ACCT 312 or equivalent.
- ACCT 420 Controllership: Integration of the Accounting Function** 5
The objective of this course is to develop an integrated knowledge of accounting and enterprise management to a level which provides a conceptual framework for critically evaluating an accounting system's effectiveness in meeting the accounting information needs of enterprise from a strategic to operational level. Topics will be addressed using case studies, current readings, group projects, and guest practitioners, with emphasis given to the continued development of skills in critical thinking, decision making, and both oral and written communication. Prerequisites: ACCT 301, 311, 312, 330, and 336 or program chair permission.
- ACCT 430 Advanced Cost Accounting** 5
An extension of ACCT 330 (Cost Accounting), this course focuses on advanced product costing systems, as well as current and emerging issues in cost management topics. Topics will be addressed using case studies, current readings, and group projects, with emphasis given to the continued development of skills in critical thinking, decision making, and both oral and written communication. Prerequisites: ECON 272, ECON 310, ACCT 330, FINC 340, senior standing.
- ACCT 431 Advanced Financial Accounting** 5
Theory and development of financial accounting practices associated with international transactions, business combinations, and non-profit organizations. Particular emphasis on the computerized preparation of consolidated financial statements. Continued development of students' oral and written communication skills. Prerequisite: ACCT 312.
- ACCT 435 Auditing I** 5
Purpose, scope, concepts, and methods used in examining and attesting to financial statements. Current issues concerning professionalism, the role of the public accountant, and auditing matters in international accounting. An emphasis on effective written communication in the audit function. Prerequisite: ACCT 312 or permission.

- ACCT 436 Federal Income Tax II** 5
Study of advanced topics in federal taxation, including formation, operation, and dissolution of the business entity. Expand knowledge base as to choice of entity and special tax subjects. Emphasizes the importance of ethical considerations, competent tax, and thoughtful tax planning. Course requires participation in the Volunteer Income Tax Assistance program which includes assisting taxpayers with preparation of their individual income tax returns with the supervision of tax professionals. Emphasis is given to the development of communications skills in a professional-to-client environment. The taxpayer assistance component of the course is spread over parts of the winter and spring quarters. Students receive an "N" grade for winter quarter and the course grade spring quarter. Prerequisite: ACCT 301 and ACCT 336.
- ACCT 437 Advanced Accounting and Information Systems**..... 5
The course will focus on major technology issues faced by today's financial executives and examine ways companies are addressing these issues. Major topics expected to be covered include prioritization of technology investments using ROI and other financial/economic analyses, appropriate levels of security for information applications and systems through examination of identification of key risks and controls, alignment of business and IT strategy including review of IT organizations and system development life cycles, and using XBRL to improve financial reporting processes including step by step implementation guide. Prerequisites: ACCT 330, 312.
- ACCT 491-493 Special Topics** 2 to 5
- ACCT 494 International Study Tour: Accounting**..... 5
The study of accounting issues and environment of a foreign country. Course will include travel to the country to observe activities and conditions and to meet with representatives of businesses and other institutions. Location of tour can vary. Check with the department for details.
- ACCT 495 Internship** 1 to 5
Open to junior and senior business majors with advisor'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 advisor. Will not satisfy a major requirement.
- BETH 351 Business Ethics** 5
Application of general ethical theory to those problems directly related to the business world. Cross-listed with PHIL 351. Prerequisites: PHIL 210 or 220; ECON 271.
- BETH 396 Directed Study**..... 1 to 5
- BETH 494 International Study Tour: Business Ethics**..... 5
The study of ethical issues in business in the context of a foreign country. Course will include travel to the country to observe activities and conditions and to meet with representatives of businesses and other institutions. Location of tour can vary. Check with the department for details.

- BETH 496 Independent Study** 1 to 5
- BLAW 291-293 Special Topics** 1 to 5
- BLAW 296 Directed Study**..... 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 increased international business activities. Prerequisites: BETH 351/PHIL 351 and advanced standing in the Albers School.
- BLAW 396 Directed Study**..... 1 to 5
- 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: BLAW 370.
- BLAW 491-493 Special Topics** 2 to 5
- BLAW 494 International Study Tour: Business Law**..... 5
- The study of international law in the context of a foreign country. Course will include travel to the country to observe activities and conditions and to meet with representatives of businesses and other institutions. Location of tour can vary. Check with the department for details.
- BLAW 495 Internship** 1 to 5
- Open to junior and senior business majors with advisor'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 advisor. Will not satisfy a major requirement.
- ECIS 315 Introduction to Information Systems and E-Commerce** 5
- This course provides the undergraduate business major a basic understanding of business information systems and e-commerce. Topics include, but are not limited to, software business applications, systems architecture, e-commerce models, web design and usability, database management, wireless technologies, data communications, business systems development, project management, legal and ethical issues, and information security.
- ECIS 320 Fundamentals of Programming in Business** 5
- Introduces fundamental concepts of programming in business, including data types, expressions, control structures, functions, I/O, error handling, debugging, graphical user interface and event-driven programming. A programming language is chosen based on its relevance and acceptance in the business community.

- ECIS 396 Directed Study..... 1 to 5**
- ECIS 462 Internet Marketing 5**
 Concepts, tools, and strategies for understanding and exploiting opportunities associated with electronic commerce with focus on the strategic aspects of marketing using the Internet. The Internet alters the way business is conducted on a local and global basis. It changes 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: ECIS 315, ECIS 320, advanced standing in the Albers School or instructor permission ECIS 315 may be taken concurrently with one other ECIS major course.
- ECIS 466 Database Systems in Business..... 5**
 This course introduces fundamental concepts and implementations of database systems in business. Topics include: relational model, entity-relationship model, SQL, data warehousing and data mining. Students use relational database management systems and computer aided software engineering tools for instruction and assignments. Prerequisite: ECIS 315, advanced standing in the Albers School or instructor permission. ECIS 315 may be taken concurrently with one other ECIS major course.
- ECIS 469 Business Data Communication 5**
 This course introduces fundamental concepts in business data communications. Understanding the technical aspects of corporate computer networks as well as the Internet is critical in identifying and developing new business opportunities for e-commerce. Topics include local area networks (LANs), wide area networks (WANs) and the Internet. Additionally, the course will examine communication protocols and the design of business applications for the Internet. Prerequisite: ECIS 315, advanced standing in Albers School or instructor permission. ECIS may be taken concurrently with one other ECIS major course.
- ECIS 494 International Study Tour:
 Information Systems Management 5**
 This course focuses on the management of technology in a given region of the world, and involves visiting a country in question to gain a better understanding of the issues facing managers in that environment. Location of tour can vary. Check with the department for details.
- ECIS 496 Directed Study..... 1 to 5**
- ECON 260 Business Statistics 5**
 Basic statistical procedures, concepts, and computer applications used in the business world. Descriptive statistics, probability, decision theory, probability distributions, sampling distributions, statistical inference, chi-square analysis, and correlation. Prerequisites: MATH 130, 134, or equivalent, sophomore standing.

- 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. Prerequisites: completed at least 30 credits.
- 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. Prerequisites: Completed at least 30 credits.
- ECON 296 Directed Study** 1 to 5
- 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: ECON 260.
- ECON 325 International Political Economy** 5
 Economics and politics of the international system. Trade policy and international gains from trade. Economic and political institutions and economic development. International financial institutions, exchange rates, international financial crises. Pros and cons of globalization. Cross-listed with INST 325. Prerequisite: ECON 271.
- 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. Serves as intermediate macroeconomics course for economics majors and minors. Prerequisites: ECON 271.
- 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. 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. Prerequisites: ECON 272; MATH 130 or MATH 134.
- ECON 375 Asian Economic Development** 5
 Introduction to Asia and issues in economic development specific to Asia: "Asia as a myth", conceptualizing Asia; common issues for development in Asia; Asian-style democracy; international relations; autocracy, democracy, and development; policy formulation and reform; institutions and path dependency; NGOs; corruption and governance. Economic issues and problems in Japan, South East Asia, Korea, China and India. The New World Economy and the rise of China and India. Human rights, outsourcing, gender and globalization, and regional economic co-operation. Prerequisite: ECON 271.

- ECON 376 Economic Development..... 5**
Developing nations: agriculture, industry, population, education, technology, exports, imports, capital and savings, unemployment. Trade agreements and foreign aid. Prospects and limits. Prerequisite: ECON 271, 272.
- ECON 378 Financial Markets and Economic Development 5**
Nature, function, and regulation of financial markets in the LDCs. Financial repression and liberalization and their effects; financial instability; connections between monetary policy, fiscal policy and inflation; microfinance; exchange rate regimes; central banking in the LDCs; secondary financial markets in the LDCs; the LDC Debt Crisis; The Asian financial crisis; globalization and LDC financial markets; international financial institutions and the LDCs. Prerequisites: ECON 271, 272.
- ECON 391-393 Special Topics 1 to 5**
- ECON 396 Directed Study 1 to 5**
- ECON 461 Economics of Gender and Family 5**
Examines models of family decision-making and applications, such as marriage, divorce, division of labor and childcare. Analyzes competing explanations for the gender gap in earnings and employment. Considers viewpoints from mainstream economics to feminism. Prerequisite: ECON 272.
- 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.
- 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 Economics..... 5**
Pattern, organization, and promotion of U.S. and world trade. Trade theories and policies. Exchange rates, balance of payments and the operation of international monetary systems. WTO. European Integration. Multinationals in foreign trade. 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 477 Policy Analysis in International Development..... 5**
 Applied policy analysis for international development: Field research methods, internet data sources, statistical analysis, SWOT analysis, cost-benefit analysis, sector-wide approaches, project management, monitoring and evaluation. Applications include health care policy, environmental policy, education policy, and poverty reduction strategies. Prerequisites: ECON 271, 272, 310.
- 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 479 Economic Growth 5**
 Sources and causes of long run economic growth; factors which have kept some countries from growing. Cross national data on income levels and other measures of economic well-being. Economic models used to explain the growth process. Theoretical and empirical models are used to analyze the impact of government policies on economic growth. Prerequisites: ECON 271, 272.
- 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 a three-faculty member committee. Limited to economics majors fulfilling the Senior Synthesis requirement. Does not satisfy economics elective for business economics major or economics minor.
- ECON 491-493 Special Topics 2 to 5**
- ECON 494 International Study Tour: Economics 5**
 The study of economic and business environment of a foreign country. Course will include travel to the country to observe activities and conditions and to meet with representatives of businesses and other institutions. Location of tour can vary. Check with the department for details.
- ECON 495 Internship 1 to 5**
 Open to junior and senior economics majors with advisor'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 advisor. 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 230, and advanced standing in the Albers School.		
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 343	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 344	Investments	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 391-393	Special Topics	2 to 5
FINC 396	Directed Study.....	1 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 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. Prerequisite: FINC 340.		
FINC 448	Capital Budgeting.....	5
Capital budgeting is the activity of allocating capital to alternative investment opportunities facing a firm. This course covers a wide variety of tools, techniques, and issues associated with a firm's capital budgeting decision. Prerequisite: FINC 342.		
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 451	Investment Practicum.....	5
This course focuses on the application of the fundamental concepts in stock valuation learned in other finance classes to the selection of real companies and the formation of an investment portfolio. The emphasis is on stock selection. Different investment philosophies are studied and applied, including: "value" strategies, "growth" approaches and "momentum" methods. Students in this class will manage a real or virtual portfolio. Prerequisite: FINC 344 or instructor permission.		
FINC 452	Portfolio Management	5
This course focuses on the design of "efficient" portfolios within a risk-return framework. The subjects included are: setting portfolio objectives and constraints, mean-variance analysis, modern portfolio theory, investment styles, asset allocation, portfolio protection, revision, performance and attribution. Use of portfolio analysis software. Prerequisite: FINC 344.		
FINC 491-493	Special Topics	2 to 5
FINC 494	International Study Tour: Finance.....	5
The study of financial, economic, and business environment of a foreign country. Course will include travel to the country to observe activities and conditions and to meet with representatives of businesses and other institutions. Location of tour can vary. Check with the department for details.		
FINC 495	Internship	1 to 5
Open to junior and senior finance majors with advisor'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 advisor. Will not satisfy a major requirement.		
INBU 491-493	Special Topics	2 to 5
INBU 495	Internship	1 to 5
Open to junior and senior international business majors with advisor'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 advisor. 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: Completed at least 30 credits, including ENGL 110. Business majors only, except by permission.		
MGMT 296	Directed Study	1 to 5
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 examines their individual and inter-related effects on organizational and managerial practices. Provides a framework for understanding organizational action within an increasingly global environment. Prerequisite: Advanced standing in the Albers School.		
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, and cases. Students learn basic concepts and tools for solving organizational problems. Prerequisite: advanced standing in the Albers School.		
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
This course covers the role of the human resource function, social and legal environment, human resource strategy, human resource planning, recruiting, selection, training, evaluation, compensation, performance management, employee relations, and organizational policies. Prerequisite: MGMT 380.		
MGMT 391-393	Special Topics	2 to 5
MGMT 396	Directed Study	1 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	Business Plan Development	5
In this class students will learn to start and manage a successful business enterprise and will practice and develop management skills by creating a business plan. Course will cover a variety of topics and issues. Prerequisite: FINC 340 and MKTG 350.		
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. Course methods may include lecture, discussion, case analyses, and individual or group projects. Prerequisites: all business foundation requirements and senior standing.		
MGMT 491-493	Special Topics	2 to 5
MGMT 494	International Study Tour: Management.....	5
An exploration of international management issues or other special topics related to the specific destination of the study tour. The course will include travel to a foreign country to observe business practices and examine indigenous management problems, to meet with representatives of local businesses and other institutions. Location of tour can vary. Check with the department for details.		

- MGMT 495 Internship 1 to 5**
Open to junior and senior management majors with advisor'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 advisor. 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: advanced standing in the Albers School.
- MKTG 351 Buyer Behavior 5**
Application of behavioral sciences to explore consumer and organizational decision-making processes. Emphasis on the information processing of buyers, including the effects of environmental and behavioral influences. 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 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 396 Directed Study 1 to 5**
- MKTG 451 Marketing Research 5**
Purpose, methods, and techniques of marketing research. Prerequisites: MKTG 350 and ECON 260.

MKTG 452	Marketing Management.....	5
Applies marketing principles to practical problems in marketing strategy development and management decision making. May employ case studies, large scope projects, or marketing simulation games. Prerequisites: MKTG 350, ACCT 231, MKTG 351, MKTG 451 (either MKTG 351 or MKTG 451 may be taken in the same quarter as MKTG 452).		
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 491-493	Special Topics	2 to 5
MKTG 494	International Study Tour: Marketing	5
The study of international marketing in the context of a foreign country. Course will include travel to the country to observe activities and conditions and to meet with representatives of businesses and other institutions. Location of tour can vary. Check with the department for details.		
MKTG 495	Internship	1 to 5
Open to junior and senior marketing majors with advisor'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
Supervised individual work. Open to senior business majors with the approval of the student's advisor. Will not satisfy a major requirement.		
OPER 360	Manufacturing and Service Operations	5
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. Student teams visit a local factory or service operation and prepare reports relating their observations to course topics. Prerequisites: MATH 130, ECON 260, advanced standing in the Albers School.		
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.		
OPER 396	Directed Study.....	1 to 5

- 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 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 494 International Study Tour: Operations 5**
 The study of international operations in the context of a foreign country. Course will include travel to the country to observe activities and conditions and to meet with representatives of businesses and other institutions. Location of tour can vary. Check with the department for details.
- OPER 496 Independent Study 1 to 5**
 Supervised individual exploration. Open to senior business majors with the approval of the student's advisor. Will not satisfy a major requirement.

College of Education

Sue A. Schmitt, EdD, Dean

Ivan Hutton, PhD, Associate Dean

SusanEllen Bacon, PhD, Assistant Dean,

Professional Development/Continuing Education Programs

Organization

The graduate programs of the College of Education are organized into the following four departments:

Counseling and School Psychology

Hutch Haney, MS, Chairperson

- Counseling
- School Psychology

Teaching and Learning

Chairperson: TBD

- Curriculum and Instruction
- Literacy for Special Needs
- Special Education
- Teacher Education

Professional Studies

Carol L. Weaver, PhD, Chairperson

- Adult Education and Training
- Educational Administration
- Student Development Administration
- Teaching English to Speakers of Other Languages

Educational Leadership

Roberto A. Peña, PhD, Chairperson

- Educational Leadership

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.

Accreditation

The College of Education is fully accredited by the National Council for Accreditation of Teacher Education and all programs leading to Washington State P-12 certificates are approved by the Washington State Board of Education.

Objectives

The mission of the College 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 curriculum and instruction, literacy/reading, and special education. See the *Graduate Bulletin* or call the Education Office for details.

Through reciprocal agreements, College of Education graduates also qualify for certification in many other states.

Graduate Degrees and Programs Offered

See *Graduate Bulletin* for:

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

Post-Baccalaureate 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 or visit the website seattleu.edu/coe/mit 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. Students interested in a teaching career should contact the MIT program at (206) 296-5759 or visit the Web site seattleu.edu/coe/mit 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 Administrative Assistant at (206) 296-5759 to arrange an appointment.

The following majors are suitable for 5-12 or K-12 certification through Seattle University:

Endorsement in Content Subject Area	Grade Level(s)
Biology	5 – 12
Chemistry	5 – 12
Designated Arts:	
Theater Arts (Drama)	K – 12
Visual Arts	K – 12
Designated World Languages:	
French	K – 12
German	K – 12
Japanese	K – 12
Spanish	K – 12
Earth Science	5 – 12
Elementary education	K – 8
English as a second language	K – 12
English/language arts	5 – 12
History	5 – 12
Mathematics	5 – 12
Physics	5 – 12
Reading	K – 12
Science	5 – 12
Social Studies	5 – 12
Special Education	K – 12

Endorsement forms are available as pdf documents for review and download at seattleu.edu/coe/mit/forms.asp

Undergraduate Education Courses

These courses can be used as electives in a student's program with a College of Education advisor'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. Issues 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. The role of the teacher in each of these settings is examined. Visits to three schools are 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 L. Fisher, PhD, Dean

Jodi Olsen Kelly, EdD, Associate Dean

Michael Andrews, PhD, Associate Dean

Fr. John F. Foster, S.J., MA, STM,

Executive Assistant to the Dean and Chaplain to the College

Nancy Bush, BA, Program Coordinator for the BAHT

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 evaluative 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 lives, 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 areas of specialization; and confront, through interdisciplinary investigation, problems, clarifying themes, and a variety of values. Students are aided in undergoing prescriptive self-assessment.

Matteo Ricci College has always been an "experimental college," a laboratory for curricular innovation, hence among its objectives is the continuing enterprise of creating new elective courses for the benefit of Seattle University as a whole. A related objective is to keep alive the student-centered pedagogy of the best of Jesuit education through small classes, an integral curriculum, and close attention to individual students.

Although many graduates have gone directly from Matteo Ricci College to promising career placements, humanistic education should be seen as pre-professional, not as terminal, education. Matteo Ricci College, consistent with the mission of Seattle University, seeks to develop first fully human persons who can then take the greatest possible advantage of their subsequent professional training and opportunities. In the specific case of students seeking the bachelor of arts in humanities for teaching, the objective of the college is to educate future teachers who will become inspirations to their own students, exemplars to their peers, and de facto missionaries of the wisdom in learning.

Degrees Offered

Bachelor of Arts in Humanities (three-year degree)

Bachelor of Arts in Humanities for Teaching (four-year degree)

Majors Offered

Humanities

Humanities for Teaching

Bachelor of Arts in Humanities

The bachelor of arts in humanities (BAH) combines a broadly humanistic education with a specific focus on alleviating the harm and grief that come from socio-economic hardship and related ills in society. The BAH enables students to develop fully those specifically human skills necessary for success in most careers or professions. Many students combine their work toward a BAH with other course work in the life sciences, social sciences, nursing, engineering, business, et al, to complete two undergraduate degrees in four years. Other students move directly from the BAH to attractive opportunities in graduate schools of law, education, public administration, etc. Still others take advantage of the year saved through the BAH to travel and/or study extensively abroad.

Structure and Special Admissions Requirements

Traditionally, Matteo Ricci College at Seattle University has been 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 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 Matteo Ricci College 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 the late 1980's and early 1990's, initial collaboration between Seattle University and five of the eight local Catholic high schools led to academic partnerships, termed the Matteo Ricci College Consortium, that opened access to the bachelor of arts in humanities program 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 ten Seattle University credits, which may be applied toward a bachelor of arts in humanities degree or other Seattle University program requirements, or be transferred to other universities.

Beginning with the fall term of the 1989-1990 academic year, admissions to the Matteo Ricci College to study toward a bachelor of arts in humanities 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 Matteo Ricci College.
- 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 School, Archbishop Murphy 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 (2.00) 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.

General Program Requirements (Policy 90-1)

All students are expected to make normal progress toward completing the required courses in sequence. They must maintain a cumulative academic grade point average of 2.00 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 College.

Peer advisors, overseen by the associate deans and the college administrator, serve as the principal advisors to all Matteo Ricci College students on academically related matters. No student in the College may register for any Seattle University course without first consulting, and receiving written permission from, a peer advisor or a dean. Students are required to seek additional advising from faculty with disciplinary expertise in the area of specialized studies selected (see Area of Concentration, below). Students who are contemplating studying for two degrees in four years are required to declare the second degree and be assigned an additional advisor from within that faculty as soon as possible.

Bachelor of Arts in Humanities Major in Humanities

In order to earn the bachelor of arts in humanities through Matteo Ricci College, students must complete 135 quarter credits with a cumulative grade point average of 2.25, including the following:

HUMT courses as shown below	60
Fine Arts	5
Mathematics	5
Laboratory Science	5
CISS 120: Poverty in America	5
Areas of Concentration (choose one):	40 to 45
Concentration in a single discipline (40)	
Concentration in a pre-professional area	
(e.g., pre-medical, pre-dental, pre-law, business, engineering, etc.) (45)	
Concentration in a coordinated split discipline (20/20)	
Electives approved by advisor or dean	10 to 20

Typical Sequencing of Courses

Year 1:

HUMT 150 & 180; 151 & 181; 152 & 182.....	30
Requirements, e.g., CISS 120, or Area of Concentration	15

Year 2:

HUMT 301, 302, 380 15	
Requirements, Area of Concentration, Electives	30

Year 3:

HUMT 400, 401 & 402.....	15
Area of Concentration, Electives.....	30

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 (2.00) or higher will be accepted in fulfillment of all other humanities courses. 2. Matteo Ricci College 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. Of these additional 45 credits, at least 30 must be completed in the subject of the second degree regardless of the credits already completed in the Matteo Ricci College area of concentration. 3. The curriculum for students entering Matteo Ricci College 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 Matteo Ricci College from the consortium schools must earn 135 credits beyond what was earned in the bridge curriculum on the high school campus.

Bachelor of Arts in Humanities for Teaching

The bachelor of arts in humanities for teaching (BAHT) should be understood as a "pre-teaching" degree analogous to a "pre-law" or "pre-med" curriculum: a degree intended to give the best possible undergraduate preparation for subsequent professional training in a graduate school of education. The BAHT builds on the basic humanistic course work that is the hallmark of Matteo Ricci College but also adds two key elements: (1) course work and co-curricular activities designed and taught in collaboration with the Seattle University College of Education to provide optimal foundations and perspectives, theoretical and experiential, for those who plan to attend graduate school to become teachers in the K-12 schools; and (2) sophisticated individual advising to assure that students who will be seeking admission to a graduate school of education for teacher-training and certification have already completed, as undergraduates, the course work in specific academic disciplines to qualify them ideally for subject area endorsements (i.e., legal authority to teach particular subjects in the state or states of their choice once they have earned a teacher's certificate through a master's level program at Seattle University or elsewhere). Thus, students preparing for the BAHT will be guided in taking advantage of the rich breadth of courses available throughout Seattle University so as to maximize their subsequent attractiveness first to graduate schools of education and then to school districts, as well as to make them excellent teachers and effective leaders within their communities. For those students who might ultimately decide not to pursue teaching as a career, the BAHT offers a broad training in the liberal arts, which should serve the student well in many professions and vocations.

Structure and Admissions Requirements

The program leading to the bachelor of arts in humanities for teaching (BAHT) is designed and taught in collaboration with the Seattle University College of Education, a graduate school. The BAHT is a "cohort program"; that is, students are only admitted to the program as freshmen through the normal process administered through the Seattle University Office of Undergraduate Admissions. Thereafter, students follow a prescribed sequence of required courses (see below). Students will also have ample opportunities to undertake study in one or more "areas for endorsement" so as to fulfill the specific subject area requirements to be allowed to teach specific subjects in an elementary, middle, or secondary school. This degree does not itself confer a teaching credential of any kind. Rather, it is an optimal academic preparation for someone who intends to obtain a credential through a master's degree in teaching or other graduate-level program, or even through the alternative certification programs offered in some states. Apart from the sequences of required courses, students' individual programs of study may vary widely depending on the grade level and the specific subject areas in which they intend to teach.

Guaranteed Preferred Admission to the Master in Teaching Program of the Seattle University College of Education

Students who complete the BAHT with a grade point average of 3.0 or better, and who also meet the general admissions requirements of the Seattle University College of Education, are guaranteed a preferred status in applying for admission to the Master in Teaching (MIT) program. This preferred status is valid for up to three academic years following completion of the BAHT, to permit the student a period of employment, foreign study, other specialized study, etc. Students interested in pursuing this path should contact directly the Seattle University College of Education regarding forms, deadlines, and any intervening changes to their general requirements, which at present are as follows:

- A cumulative grade point average of 3.00.
- A passing score on the Washington State Basic Skills Test (a requirement for eventual teacher certification).
- A passing score on the Washington State Content Test in the student's intended area(s) of endorsement (also a requirement for eventual teacher certification).
- Two letters of recommendation, preferably from people who can assess the applicant's work with young people and/or from the applicant's professors or cooperating teachers in HUMT 271-272 or HUMT 273-274.
- Satisfactory completion of a primary teaching subject area endorsement form outlining the courses taken or to be taken to meet state endorsement requirements for elementary or secondary teaching. This form must be provisionally approved by the Seattle University MIT program.
- The completion of an endorsement plan under the guidance of an MIT advisor.
- An autobiographical statement.
- A writing sample.
- An interview with faculty from the Seattle University MIT program.

The decision to admit a student to the MIT program is entirely at the discretion of the College of Education. Students who may not meet the requirements for preferred admission status at the Seattle University College of Education are nonetheless likely to be strong candidates for admission through the normal admissions process at other graduate schools of education. They may also reapply to the Seattle University MIT program. Students who do not pass the skills and content tests may nonetheless earn the BAHT degree.

Program Requirements

Students are expected to make normal progress toward completing the required courses in sequence. They must always maintain a cumulative academic grade point average of 2.50 or higher. Students failing to meet these expectations will be placed on probation for two quarters and thereafter are subject to dismissal from the College.

Each student is closely advised by a Matteo Ricci College BAHT advisor who is conversant with the endorsement and credential requirements in the various states, as well as with the preferences of graduate schools and school districts as they evaluate candidates. No student may register for any Seattle University course without consulting, and receiving written permission from, an advisor or a dean. Students are required to seek additional informal advice from faculty in their areas of prospective endorsement. Further, appropriate personnel of the Seattle University College of Education meet regularly with BAHT students as a group and individually as needed.

Bachelor of Arts in Humanities for Teaching Major in Humanities for Teaching

In order to earn the bachelor of arts in humanities for teaching through Matteo Ricci College, students must complete 180 quarter credits, with a cumulative grade point average of 2.50, including the following:

HUMT courses as shown below	89
Laboratory Science	5
CISS 120: Poverty in America	5
Mathematics	5
Courses pursuant to endorsement(s)	20 to 40
Courses to develop ancillary skills	36 to 56

Course work ancillary to the area(s) of endorsement might include public speaking, acting, courses on citizenship, courses on world cultures, on race and ethnicity, economics, drama, independent studies, etc., depending on the individual student.

Typical Sequencing of Courses

Year 1:	
HUMT 150 & 180; 151 & 181; 152, 171, 182, 161, 162, 163	39
Other	10
Year 2:	
HUMT 271-272 or 273-274, 301, 302	20
CISS 120: Poverty in America	5
Other	20
Year 3:	
HUMT 371, 372, 380	15
Other	30
Year 4:	
HUMT 400, 471, 472	15
Other	30

Program Supplements

On-going contact with faculty from the Seattle University College of Education

Students meet informally from time to time with professors of education to assure a sense of welcome and encouragement and an open channel for adventitious communication. Although Matteo Ricci College meets fully the advising needs of its students, the availability of advice from the graduate faculty in the College of Education is an important asset of the program.

Practice Exams (WestE – Praxis)

Students are encouraged to take mock content examinations in their subject areas of intended endorsement and to form study groups to analyze their results on particular questions in order to develop test-taking strategies. Students with low scores are referred on a timely basis for appropriate tutorial help.

Matteo Ricci College

Humanities Courses

Humanities 150, 151, 152, 161, 162, 163, 180, 181, 182, 271, 272, 273, 274, 401, and 402 are open to Matteo Ricci College students only. Humanities 301, 302, 380, and 400 are normally cross-listed with collaborating departments and are open to any student in the university to the extent that space is available. Students enrolling in Humanities 171, 371, 372, 471, and 472 must have been admitted to the BAHT degree program or have written permission from the dean of Matteo Ricci College; students not enrolled for the BAHT degree will be welcomed on a space-available basis. In some cases prerequisites may be waived for students not enrolled for the BAHT degree.

HUMT 150 Composition: Language and Thought..... 5
Study and practice in the arts of rhetoric: structuring arguments, controlling word-choice, sentences, paragraphs, and essays, to produce clear, convincing 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 152 Logic, Ethics, and Discernment..... 5
An introduction to the methods, analytical powers, and limitations of (1) formal and informal logic, (2) ethics as a largely secular discourse, and (3) discernment as a more personal ethical guide.

HUMT 161 Humanities: Introduction to Tutoring 2

HUMT 162 Humanities: Introduction to Tutoring 1

HUMT 163 Humanities: Introduction to Tutoring 1
A three-quarter theoretical and practical introduction to tutoring K-8 students. Supervised practicum in local schools.

HUMT 171 Proseminar: Humanistic Foundations of Education..... 5
The writings of great thinkers on educational ideas, e.g., Plato, Quintillian, St. Augustine, the Renaissance Humanists, St. Ignatius, Locke, Rousseau, Piaget, Montessori, et. al. Lectures, discussion, presentations, writing. Prerequisites: HUMT 150, 180, 181; concurrent enrollment in HUMT 182.

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.

HUMT 221	Women in Popular Culture.....	3 to 5
How women's roles and images have interacted in U.S. popular culture: path-breaking leaders, social movements, women's lives.		
HUMT 271	Seminar on Elementary Education	5
HUMT 272	Supervised Internship in Elementary Education	5
HUMT 271 and 272 are linked courses and must be taken concurrently. Internship as a teacher's aide in an elementary school, coordinated with readings in related educational practice and problems; discussion, presentations, writing. Prerequisite: HUMT 171.		
HUMT 273	Seminar on Secondary Education.....	5
HUMT 274	Supervised Internship in Secondary Education	5
Equivalent to HUMT 271-272 for secondary education. Prerequisite: HUMT 171.		
HUMT 296	Directed Study.....	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 371	Education and the Polity	5
The changing roles of schools within society; the public debates surrounding those roles: ethical, political, and practical issues. Discussion, writing, and presentations. Prerequisites: HUMT 271-272 or 273-274 or permission of the dean.		
HUMT 372	Leadership and Teaching	5
Diverse ways of leadership, including particularly from positions apart from office and title. Local leaders meet with students to share their own experiences. Examination of the teacher's multiple roles as a leader. Reflective writing and practical exercises; presentations. Prerequisite: HUMT 271-272 or 273-274 or permission of the dean.		
HUMT 380	Cultural Interface	5
Interdisciplinary study of a contemporary "foreign" nation or culture in Asia, Africa, Latin America, or the Middle East. Emphasis on the intellectual, religious, historical, and economic roots of the culture. An attempt to move beyond the study of aggregates to know how individuals live and feel.		
HUMT 391-393	Special Topics	1 to 5
HUMT 396	Directed Study.....	1 to 5

HUMT 400	Matteo Ricci College Seminars on Contemporary Problems	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 comprehensive project in the Matteo Ricci College capstone courses, HUMT 401 and 402.		
HUMT 401	Matteo Ricci College Capstone Course I	5
HUMT 402	Matteo Ricci College Capstone Course II	5
A two-quarter sequence, a project-based seminar that integrates and culminates the bachelor of arts in humanities. 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.		
HUMT 471	Jesuit Education.....	5
The origins and principles of Jesuit education, St. Ignatius to the present. Purposes and perspectives of specific techniques, extra-curricular activities, public service, concern for the poor and the marginalized. Prerequisites: HUMT 271-272 or HUMT 273-274 or permission of the dean.		
HUMT 472	Jesuit Education Practicum.....	5
Students develop lessons and presentations grounded in Jesuit pedagogy and the Ignatian paradigm, working in their own prospective area of endorsement. Prerequisite: HUMT 471.		
HUMT 480-483	Interdisciplinary Core Course	3 to 5
Title and content vary.		
HUMT 496	Independent Study	1 to 5

College of Nursing

Mary deChensay, DSN, APRN-BC, FAAN, Acting Dean

Barbara Anderson DrPH, RN, CNM, Associate Dean

Objectives

The aim of the College 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 curricular change occurs, students must complete the enrolled program of study within the timeframe 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

Commission on Collegiate Nursing Education (CCNE)

Approval

Washington State Nursing Care Quality Assurance Commission;

For additional information on Seattle University's nursing programs, please contact the College of Nursing. Prospective undergraduate nursing students who desire further information about nursing programs in general, such as tuition, fees, and length of program, may also contact the Commission on Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington DC 20036, (202) 887-6791.

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 grade point average 2.75 and major prerequisite grade point average of 3.00 or above from another college or university is required for transfer students seeking admission into the College of Nursing. The chemistry requirement is met by satisfactory completion of 1 unit (one year) of high school chemistry or one quarter of college chemistry.

General Program Requirements

Students must obtain a minimum cumulative GPA 2.75 and major program/prerequisite GPA of 3.00 to enter the nursing sequence of study. Specific requirements for progression are detailed in Policy 75-3, which is included in the College of Nursing Undergraduate Student Handbook.

Students must meet the College of Nursing/Clinical Agency requirements for annual health screening, current cardiopulmonary resuscitation, 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 College of Nursing Undergraduate 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 College of Nursing BSN Student Handbook.

Clinical Experiences

Clinical experience is provided through cooperating health care agencies. Examples are Atlantic Street Center; Children's Hospital and Regional Medical Center; Evergreen Hospital Medical Center; Group Health Cooperative Hospital and Clinics; Harborview Medical Center; Head Start; High Point Neighborhood; New Holly Neighborhood; Neighborhood House; Northwest Hospital; Overlake Hospital Medical Center; White Center Neighborhood; Providence Mount St. Vincent; Rainier Vista Neighborhood; Seattle Public Schools; Swedish Medical Center; Swedish Medical Center Providence Campus; VA Puget Sound Health Care System; Virginia Mason Hospital; Yesler Terrace Neighborhood, and other selected health care agencies.

Bachelor of Science in Nursing

For Entering Freshmen and 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 practice/clinical courses is consistent with university policy on course scheduling. A 2.50 cumulative and 2.75 major/department grade point average is required for degree completion. All courses required for the BSN degree must be graded C (2.00) or better. Program requirements include:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
MATH 110 or above	.....	*5
Lab Science (BIOL 220 required).....		*5
Fine Arts (one approved 5 credit course; see course descriptions).....		5
PHIL 220	Philosophy of the Human Person.....	5
Social Science I (PSYC 120 required).....		*5
Social Science II (not psychology).....		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 (2.00) minimum grade allowed.

II. Major Requirements

108 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
Nursing upper-division credits:		
NURS 304	Pathophysiology	6
NURS 305	Introduction to Pharmacology	3
NURS 306	Foundations of Professional Nursing.....	5
NURS 308	Health Assessment and Intervention I.....	5
NURS 312	Health Assessment and Intervention II.....	4
NURS 324	Nursing Research and Epidemiological Methods	5
NURS 332	Promoting Wellness in Families – Theory.....	3
NURS 333	Promoting Wellness in Families – Clinical.....	4
NURS 334	Promoting Wellness for Older Adults – Theory	3

NURS 335	Promoting Wellness for Older Adults – Clinical	3
NURS 336	Promoting Mental Health – Theory.....	3
NURS 337	Promoting Mental Health – Clinical.....	3
NURS 340	Social Justice and Caring for the Vulnerable	2
NURS 344	Promoting Wellness During Altered Health I – Theory	3
NURS 345	Promoting Wellness and Altered Health I – Practice	5
NURS 346	Statistics for Health Sciences (or approved alternate).....	3
NURS 402	Leadership and Management in Health Care	3
NURS 406	Health Care of Communities – Theory	3
NURS 407	Health Care of Communities – Clinical	4
NURS 422	Drugs and Nursing Implications: A case study approach....	2
NURS 426	Promoting Wellness During Altered Health II – Theory	4
NURS 427	Promoting Wellness During Altered Health II – Clinical	5
NURS 437	Transition to Professional Nursing Practice	9
NURS 490	Senior Synthesis.....	3

III. Electives

Unspecified Elective	4
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NOTE: Prospective students are required to work with a designated academic advisor to develop a plan for sequence of study to meet program requirements.

Nursing Courses

NURS 304	Pathophysiology	6
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A conceptual approach to alterations in structure and function resulting from stressors on the human body. Course will review the cellular and molecular basis of these alterations. The course will examine pathophysiologic mechanisms of disease such as inflammation, genetic alterations, immune responses, and alteration in the functions of body systems. Prerequisites: BIOL 200, 210; BIOL 220 recommended. Open to non-majors.

NURS 305	Introduction to Pharmacology	3
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Examination of pharmacological principles and drug classes. Self-management strategies and care provider considerations. Integration of legal, ethical, and other social factors. Prerequisite: Math 110 or above and nursing major. Pre or co-requisites: NURS 312, 332, and 333.

NURS 306	Foundations of Professional Nursing	5
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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 critical thinking, cultural competence, communication, collaboration, and group process skills for professional relationships. Theory (4 credits), lab (1 credit). Prerequisite: all courses prerequisite for nursing program. Majors only.

- NURS 308 Health Assessment and Intervention I..... 5**
Basic techniques of screening assessments and health promoting interventions for individuals, families and populations across the lifespan. Theory (2 credits), Lab/Clinical (3 credits). Prerequisites: PSYC 322, BIOL 220, and all prerequisites for nursing program. Co-requisite: NURS 306, 304.
- NURS 312 Health Assessment and Intervention II 4**
Focus on nursing process and intervention in wellness and illness. Process includes assessment, planning, implementation, and evaluation of nursing care. Application of nursing interventions across the lifespan of individuals and in communities. Perform basic nurse provider skills. Theory (2 credits), lab/practice (2credits). Prerequisites: NURS 308. Pre or co-requisite: NURS 324. Co-requisite: NURS 332-333.
- NURS 324 Nursing Research and Epidemiological Methods..... 5**
Introduction to nursing research as a systematic method of inquiry that is fundamental to evidence-based nursing practice. Examination of qualitative, quantitative, and epidemiological research methods. Application of computer skills to identify and search health care databases. Retrieval and critique of relevant research. Prerequisites: NURS 304 through 337 and 340. Co-requisite: NURS 344, 345, 346.
- NURS 332 Promoting Wellness in Families – Theory 3**
Assessment of family structure, function and dynamics. Nursing strategies to promote health and reduce the risk of illness and injury in families through the lifespan to middle adulthood. Prerequisites: PSYC 322, NURS 304, 306, and 308. Co-requisite: NURS 305, 312, 333.
- NURS 333 Promoting Wellness in Families – Clinical 4**
Experiences in nursing care of childbearing women and childrearing families and groups. Clinical practice in a variety of acute care and community-based settings. Application of theories, principles, and nursing strategies to promote wellness and reduce illness in families and groups. Prerequisites: PSYC 322, NURS 304, and 308. Co-requisite: NURS 305, 312, 332.
- NURS 334 Promoting Wellness for Older Adults – Theory..... 3**
Nursing strategies for health promotion and risk reduction in middle and older adulthood. Emphasis on adjustments to the aging process, living with chronic illness, and end of life care. Prerequisites: 304- 333. Co-requisites: 335, 336, 337, 340.
- NURS 335 Promoting Wellness for Older Adults – Clinical..... 3**
Application of nursing process will focus on common and select biopsychosocial health concerns for older adults. Emphasis on health promotion, risk assessment, and prevention of illness and injury. Clinical experiences will occur in diverse settings appropriate to the older adult population. Prerequisites: 304-333. Co-requisites: 334, 336, 337, 340.
- NURS 336 Promoting Mental Health – Theory 3**
Nursing process application of selected theories from the sciences, humanities, and psychiatric nursing to promote wellness in clients with diverse cultural, developmental, and biopsychosocial problems across multiple healthcare environments. Use of case studies. Prerequisites: NURS 304-333 Co-requisites: 334, 335, 337, 340.

- NURS 337 Promoting Mental Health – Clinical 3**
Experiences applying principles of psychiatric nursing care to promote wellness in clients with diverse cultural, developmental, and psychosocial needs. Clinical experiences will occur in a variety of hospital and community settings. Prerequisites: 304- 333. Co-requisites: 335, 336, 337, 340.
- NURS 340 Social Justice and Caring for the Vulnerable 2**
Concepts and models of vulnerability. Emphasizes social justice, advocacy, and empowerment as framework for providing culturally competent nursing practice. Prerequisites: All required NURS courses numbered 304 to 333. Co-requisites: 334, 335, 336, and 337.
- NURS 344 Promoting Wellness During Altered Health I – Theory 3**
Explore factors contributing to and resulting in: common, acute and chronic physiological alterations in health with integration across the lifespan. Course focuses on nursing process, nursing management, risk reduction, disease prevention, and modification of impact of illness on individuals, families, and populations. Prerequisites: All required NURS courses numbered 304 through 337 and 340. Co-requisite: NURS 345, 324, 346.
- NURS 345 Promoting Wellness and Altered Health I – Practice 5**
Clinical practice to apply risk reduction, disease prevention and modification, and nursing management to adults with predictable health problems in medical-surgical acute care settings across the lifespan. Impact of alterations in physical and behavioral health applied to families and communities. Prerequisites: All required NURS courses numbered 304 through 337 and 340. Co-requisite: NURS 344, 324, 346.
- NURS 346 Statistics for Health Sciences 3**
Introduction to the nature of measures, descriptive statistics, hypothesis-testing techniques, and critical reading of descriptive and inferential statistics. Prerequisite: MATH 110 or above. Permission required for non-majors.
- NURS 372 Issues in Women's Health: A Wellness Perspective 3 or 5**
Elective course (not a major requirement). Lifestyle 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. Prerequisite: junior standing or instructor permission. Open to non-majors and applicable to a women studies minor.
- NURS 375 Health and Human Services in Belize 3**
An exploration of the history, culture and health and human service infrastructure of Belize. Students will spend five days working in health and human service setting according to their interest and skill set. Cross-listed with SOCW 375.
- NURS 391-393 Special Topics 1 to 5**
- NURS 396 Directed Study 1 to 5**
- NURS 402 Leadership and Management in Health Care 3**
Explore organizational theories, leadership and management principles in professional nursing practice and in healthcare organizations. Critically examine economic, political, and legal factors as these relate to the delivery of health services. Prerequisites: all required NURS courses numbered 304 through 346. Co-requisites: 406, 407.

- NURS 406 Health Care of Communities – Theory..... 3**
Application of systems theory, nursing science, public health science and community health theories to a variety of populations and communities. Nursing focus is an integrated approach to common community health problems across the lifespan, from prenatal to elder care, populations, and problem solving to promote healthy communities. Prerequisites: all required NURS courses numbered 304 through 346. Co-requisite: NURS 407, 402.
- NURS 407 Health Care in Communities – Practice 4**
Clinical application of concepts, principles, and processes, to support health promotion, risk reduction, disease prevention, and illness management across the lifespan and in populations. Community-based experiences with families, populations, and groups. Nursing students collaborate with other disciplines and community members on health problems and health policy issues, to implement and evaluate community-based projects. Prerequisites: All required NURS courses numbered 304 through 346. Co-requisite: NURS 402 and 406.
- NURS 422 Drugs and Nursing Implications:
A Case Study Approach 2**
Second pharmacology course for nursing majors. Application of knowledge of major drug classes and significant nursing implications. The student will synthesize information learned in previous theory and clinical courses. Prerequisites: NURS 304-407.
- NURS 426 Promoting Wellness During Altered Health II – Theory 4**
Continued focus on nursing management, physiological and psychosocial factors influencing altered health, and an integrated approach to nursing therapies for promoting wellness during altered health across the lifespan. Emphasis on managing complex care. Prerequisites: all required NURS courses numbered 304 through 407. Co-requisite: NURS 427 and 422.
- NURS 427 Promoting Wellness During Altered Health II – Practice 5**
Continued application of nursing process and refinement of nurse provider competencies. Clinical practice to apply risk reduction, disease prevention and modification, and nursing therapies to manage complex care of children and adults with illnesses in medical-surgical acute care settings. Application of theory to individuals, families and populations in the community. Prerequisites: all required NURS courses numbered 202 through 343. Co-requisite: NURS 402 and NURS 418.
- NURS 437 Transition to Professional Nursing – Practice..... 9**
Concentrated clinical practice as well as seminar discussions to appraise issues in professional nursing and leadership and management roles appropriate for the BSN graduate. Integrates program competencies. Prerequisite: all required NURS courses numbered 304 through 427. Co-requisite: NURS 490.
- NURS 480 The Changing Family 3**
An interdisciplinary seminar study of diverse family structures and the complex ways that society shapes, enables, and inhibits particular family forms. Multicultural aspects of contemporary families in socio-historical context are examined. Meets core interdisciplinary course requirement. Prerequisites: Core Phase I and II.

- NURS 481 Stress, Survival, and Adaptation..... 3**
 Elective course. Assess stress responses from multifactor, systems-oriented models through current research and literature. Examine complex cognitive, behavioral, affective, sociocultural, and environmental variables. Practice self-management interventions. Open to non-majors. Core interdisciplinary option. Prerequisites: Phase I and II of the core.
- NURS 482 Contemporary Concepts of Health and Healing..... 3 or 5**
 Elective course. Blended science and humanities review of theoretical foundations of health. Current issues include alternative health care, balancing individual responsibility with community needs, environment, and cultural health. Open to non-majors. Requires application of concepts to student's declared major. Core interdisciplinary option. Prerequisites: Phase I and II of the core.
- NURS 483 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. Core interdisciplinary option. Cross-listed with ADST 480.
- NURS 484 Spirituality and Nursing 3**
 Addresses the concept of spiritual well-being in individuals and groups. Examines the notion of nursing as vocation, and allows students to explore the spiritual dimensions of the nursing profession. Theoretical examination of spiritual concepts in nursing management of populations.
- NURS 485 HIV/AIDS: The Epidemic 3 or 5**
 Provides an overview of the HIV/AIDS epidemic including changes in the pattern of occurrence, signs and symptoms, classifications of the disease, recognition of the course of the disease and strategies for prevention. Core interdisciplinary option. Prerequisite: sophomore standing.
- NURS 490 Senior Synthesis 3**
 A capstone seminar of reflection and synthesis of the core and nursing. Integration of the intellectual, professional and personal responsibilities of nursing as a career. Examination of contemporary issues challenging the profession. Meets core requirement. Prerequisites: all required NURS courses numbered 304 through 427. Nursing majors only. Co-requisite: NURS 437.
- NURS 491-493 Special Topics 1 to 5**
- NURS 496 Independent Study 1 to 5**
- NURS 497 Directed Reading..... 2 to 5**
- NURS 498 Directed Research..... 2 to 5**

College of Science and Engineering

Michael J. Quinn, PhD, Dean

Jean Jacoby, PhD, Associate Dean

Mara Rempe, PhD, Associate Dean

Objectives

Rooted in the Jesuit tradition of liberal education, the College of Science and Engineering at Seattle University seeks to provide dynamic, integrated, and challenging academic programs in science, engineering, and health. The college is dedicated to preparing students for responsible roles in their chosen professions and to advancing the educational qualifications of practicing professionals. The college 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 biology, 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 Clinical Laboratory Science

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 Environmental Science

Bachelor of Science in General 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 Physics

Master of Software Engineering—See *Graduate Bulletin*

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.

Certificate of Post-Baccalaureate Studies

Pre-professional Health Studies Certificate

Pre-Science and Pre-Engineering

Many students come to Seattle University interested in science or engineering but unsure of the focus of their studies.

Pre-Science offers the opportunity to explore the different science programs while being a part of the College of Science and Engineering. Certain courses are common to all science programs, so there is time to learn about the degree programs available. Advisors help direct students toward a major that fits their interests and talents.

Jennifer Sorensen, PhD, Pre-Science Advisor

Phone (206) 296-5591

E-mail pre-sci@seattleu.edu

Pre-Engineering provides an opportunity to get started in an engineering program while learning about the different branches of engineering. Initially the curriculum consists of common classes for all engineering disciplines, giving students time to choose the best program for them. Advisors help direct students toward a major that fits their interests and talents.

Mary Kelly, Pre-Engineering Advisor

Phone (206) 296-2542

E-mail pre-eng@seattleu.edu

Accreditation

Individual programs within the college are accredited by the following professional bodies:

- Engineering Accreditation Commission of ABET (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 College of Science and Engineering must have completed at least four years of high school mathematics, including the equivalent of pre-calculus, except for Pre-Science. At least two years of laboratory science for all majors except mathematics and computer science. Laboratory biology and chemistry are required for B.S. Biology, and laboratory chemistry and physics are required for all engineering programs.

Transfer applicants will be considered when their overall college grade point average is at least 2.50 on a 4.00 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 (2.00) or above. No technology courses will be accepted as transfer credit.

College of Science and Engineering Requirements

Students seeking the bachelor's degree in the College 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 specialization in environmental engineering requires 192 credits. For all of the engineering programs, for all degrees in computer science, diagnostic ultrasound, 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.

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 15 credits taken by an undergraduate non-matriculated student may be applied toward a baccalaureate degree in the College 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 bachelor's degree in the College of Science and Engineering.

No course may be taken without the indicated prerequisites. Only the dean may waive this policy.

Biology

Daniel Smith, 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. Working within the general requirements of the biology major, it is possible to structure your course work to create programs with an emphasis in ecology, marine biology, cellular and molecular biology, zoology, or microbiology.

The bachelor of arts major in biology is designed for those students who would like to incorporate a biology degree into a broader liberal arts education or for those students who plan to integrate a background in biology into a related career path. The program will offer the students exposure to the breadth of the field of biology and still allow them the opportunity to combine their science training with expanded course work in other disciplines. Possible multi-disciplinary combinations could prepare students for careers in science writing or illustration, genetic counseling, environmental policy, or business in the biotechnology industry.

The bachelor of arts major in biology with a specialization in humanities for teaching is a program designed to prepare students for a career in science teaching. A full description of this program can be found in the introductory pages to the College of Science and Engineering.

Students specifically interested in premedical, pre-dental, or pre-veterinary medicine should also consult the pre-professional section of this *Bulletin*.

Degrees Offered

Bachelor of Arts

Bachelor of Science in Biology

Majors Offered

Biology

Biology with specialization in Humanities for Teaching

Minor Offered

Biology

Bachelor of Arts
Major in Biology

In order to earn the bachelor of arts degree with a major in biology, students must complete a minimum of 180 quarter credits with a cumulative and major/department grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Fine Arts (one approved 5 credit course; see course descriptions)		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		

II. Major Requirements

43 total credits in biology, including:

BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
BIOL 162	Biology II: Evolution and Ecology	4
BIOL 172	Biology II Lab	1
BIOL 163	Biology III: Physiology & Development	4
BIOL 173	Biology III Lab	1
BIOL	Electives (not 101)	10

Choose one of the following five courses:

BIOL 220	Microbiology	
BIOL 240	General Genetics	
BIOL 300	Microbiology	
BIOL 440	Molecular Genetics	
BIOL 485	Cell Biology	

Choose one of the following six courses:

BIOL 200	Anatomy and Physiology I	5
BIOL 210	Anatomy and Physiology II	
BIOL 310	Developmental Biology	
BIOL 325	Comparative Anatomy of the Vertebrates	

BIOL 385	Plant Physiology	
BIOL 388	Animal Physiology	
Choose one of the following five courses		5
BIOL 235	Invertebrate Zoology	
BIOL 252	Taxonomy of Flowering Plants	
BIOL 275	Marine Biology	
BIOL 320	Evolution	
BIOL 470	General Ecology	
Senior Synthesis:		
BIOL 487	Independent Experience	1 to 4
BIOL 488	Seminar	1

III. Other Major Department Requirements

15 credits in chemistry, typically:.....		15
CHEM 121/131 General Chemistry I with Lab		
CHEM 122/132 General Chemistry II with Lab		
CHEM 123/133 General Chemistry III with Lab		
Other courses with approval of the Biology Department		
Choose option a, b, or c:.....		5-10
a. MATH 131	Calculus for Life Sciences	
b. MATH 134	Calculus I	
c. MATH 120	Precalculus: Algebra	
PSYC 201	Statistics for Non-Majors	
Science elective (approved by department).....		5

NOTE: At least 10 credits of the 40 non-senior synthesis biology course credits must be from 300- or 400-level courses. Some of the course choices may require prerequisites beyond the minimal degree requirements. A maximum of 5 credits of directed and or independent study in Biology can be counted toward the 10 credits of Biology electives.

Bachelor of Arts

Major in Biology

Specialization in Humanities for Teaching

In order to earn the bachelor of arts major in biology degree with a specialization in humanities for teaching, students must complete a minimum of 180 quarter credits with a cumulative grade point average of 2.50 and major/department grade point average of 2.00, including the following:

I. Core Curriculum Requirements

HUMT 150	Composition: Language and Thought	5
HUMT 151	Composition: Language and the Arts	5
HUMT 152	Logic, Ethics, and Discernment	5
HUMT 161	Introduction to Tutoring	2
HUMT 162	Tutoring Practicum.....	1

HUMT 163	Tutoring Practicum.....	1
HUMT 171	Proseminar: Humanistic Foundations of Education	5
HUMT 180	Socio-Cultural Transformations I.....	5
HUMT 181	Socio-Cultural Transformations II	5
HUMT 182	Socio-Cultural Transformations III	5
HUMT 273	Seminar on Secondary Education	5
HUMT 274	Supervised Internship in Secondary Education	5
HUMT 301	Perspectives on the Person I.....	5
HUMT 302	Perspectives on the Person II.....	5
HUMT 371	Education and the Polity.....	5
HUMT 372	Leadership and Teaching.....	5
HUMT 380	Cultural Interface.....	5
HUMT 400	Seminar on Contemporary Problems.....	5
HUMT 471	Jesuit Education.....	5
HUMT 472	Jesuit Education Practicum	5
CISS 120	Poverty in America.....	5

II. Major Requirements

48 total credits in biology, including:

BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
BIOL 162	Biology II: Evolution and Ecology	4
BIOL 172	Biology II Lab	1
BIOL 163	Bio III: Physiology & Development	4
BIOL 173	Biology III Lab	1
BIOL 240	Genetics	5
BIOL 470	General Ecology.....	5
BIOL	Elective (approved by department).....	5

Choose one of the following four courses:..... 5

BIOL 235	Invertebrate Zoology
BIOL 310	Developmental Biology
BIOL 325	Comparative Vertebrate Anatomy
BIOL 388	Animal Physiology

Choose one of the following three courses:..... 5

BIOL 220	Microbiology
BIOL 300	Microbiology
BIOL 485	Cell Biology

Choose one of the following two courses:..... 5

BIOL 252	Taxonomy of Flowering Plants
BIOL 385	Plant Physiology

Senior Synthesis:

BIOL 487	Independent Experience	1 to 4
BIOL 488	Seminar.....	1

III. Other Major Department Requirements

17 credits in chemistry, including:

15 credits in general chemistry, typically: 15

CHEM 121/131 General Chemistry I with Lab

CHEM 122/132 General Chemistry II with Lab

CHEM 123/133 General Chemistry III with Lab

Other courses with approval of the Biology Department

CHEM 260 Laboratory Safety 2

Choose option a, b, or c: 5 to 10

a. MATH 131 Calculus for Life Sciences

b. MATH 134 Calculus I

c. MATH 120 Precalculus: Algebra

PSYC 201 Statistics for Non-Majors

Science elective (approved by department) 5

NOTE: At least 10 credits of the 48 non-senior synthesis biology course credits must be from 300 or 400-level courses. Some of the course choices may require prerequisites beyond the minimal degree requirements. For a secondary endorsement in general science, 5 credits of earth science and 5 credits PHYS 105 are required and will satisfy the science elective.

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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110 College Writing: Inquiry and Argument 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 Introduction to Literature 5

Fine Arts (one approved 5 credit course; see course descriptions) 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

II. Major Requirements

57 credits in biology, including:

BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
BIOL 162	Biology II: Evolution and Ecology	4
BIOL 172	Biology II Lab	1
BIOL 163	Biology III: Physiology & Development	4
BIOL 173	Biology III Lab	1
BIOL 240	Genetics	5
BIOL 470	General Ecology	5
BIOL 485	Cell Biology	5
BIOL	Electives (not BIOL 101, 200, 210, or 220)	10

Choose one of the following three courses: 5

BIOL 235	Invertebrate Zoology
BIOL 252	Taxonomy of Flowering Plants
BIOL 320	Evolution

Choose one of the following four courses: 4 or 5

BIOL 310	Developmental Biology	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

Senior Synthesis:

BIOL 487	Independent Experience	1 to 4
BIOL 488	Seminar	1

NOTE: One course of plant science beyond the 161/171–163/173 series is required. A maximum of 5 credits of directed and or independent study in Biology can be counted toward the 10 credits of Biology electives.

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 16, 17 or 18

- 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 241 Fundamental Organic Chemistry Lab I (2)
- CHEM 232 Fundamental Organic Chemistry II (4)
- CHEM 242 Fundamental Organic Chemistry I Lab II (2)

Choose one of three:

- CHEM 319 Quantitative Analysis (5)
- BIOL 305 Molecular Biology Projects Laboratory (5)
- CHEM 454 & 456 Biochemistry I & III (3 & 3)

Choose group a or b 10

- a. MATH 131 Calculus for Life Sciences
- PSYC 201 Statistics for Non-Majors
- b. MATH 134 Calculus I
- MATH 135 Calculus II

Choose physics series a or b 15

- a. PHYS 105 Mechanics
- PHYS 106 Waves, Sound, Electricity and Magnetism
- PHYS 107 Thermodynamics, Optics, and Modern Physics
- b. PHYS 121 Mechanics
- PHYS 122 Electricity and Magnetism
- PHYS 123 Waves and Optics

Minor in Biology

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

BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
BIOL 162	Biology II: Evolution and Ecology	4
BIOL 172	Biology II Lab	1
BIOL 163	Biology III: Physiology & Development	4
BIOL 173	Biology III Lab	1
BIOL	Electives (15 credits numbered 200 or above)	15

NOTE: At least 5 of the elective course credits must be from courses numbered 300 or above. Some of the course choices may require prerequisites beyond the minimal requirements for the minor.

See policy for minors (84-1) for more information.

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. (fall, winter, spring)
- BIOL 161 Biology I: Molecular and Cellular Biology 4**
 A survey of the biological world, concepts and principles—an introduction to cell biology, metabolism, respiration, photosynthesis, genetics and molecular biology. Four lectures per week. Prerequisite: high school chemistry and placement into MATH 120 or higher. Co-requisite: BIOL 171. (fall, winter)
- BIOL 162 Biology II: Evolution and Ecology..... 4**
 A survey of the biological world, concepts and principles—an introduction to evolution, diversity, comparisons of groups of living organisms and ecology. Four lectures per week. Prerequisite: BIOL 161/171 (with C- or better) Co-requisite: BIOL 172. (winter)
- BIOL 163 Biology III: Physiology & Development 4**
 A survey of the biological world, concepts and principles—an introduction to development differentiation, and comparative functions of tissues and organ systems. Four lectures per week. Prerequisite: BIOL 161/171 (with C- or better). Co-requisite: BIOL 173. (spring)
- BIOL 171 Biology I Lab..... 1**
- BIOL 172 Biology II Lab..... 1**
- BIOL 173 Biology III Lab..... 1**
 In addition to illustrating the material from the lecture sessions, the laboratory sessions in the series are an introduction to basic laboratory procedures and practices for scientific inquiry. Students will work on developing observational skills, collecting and analyzing qualitative and quantitative data, experimental design, and presentation of experimental results. Three hours per week. Prerequisite: BIOL 171 for BIOL 172, and BIOL 171 for BIOL 173. Co-requisites: BIOL 161 for BIOL 171, BIOL 162 for BIOL 172, BIOL 163 for BIOL 173. (BIOL 171 fall, winter; BIOL 172 winter; BIOL 173 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 to a BS in biology major. Four lecture and three laboratory hours per week. (fall)
- 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 to a BS in 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 to a BS in biology major. Co-requisite: BIOL 210. (winter, spring)
- 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 161/171, 162/172, 163/173 (all with C- or better). (fall)
- 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 161/171, 162/172, 163/173 (all with C- or better), or instructor permission. (fall, 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. One weekend field trip is required. Prerequisites: BIOL 161/171, 162/172, 163/173 (all with C- or better). (spring)
- 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 161/171, 162/172, 163/173 (all with C- or better). BIOL 235 recommended. (spring)
- BIOL 291-293 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 161/171, 162/172, 163/173 (all with C- or better). CHEM 123/133. (fall)
- BIOL 305 Molecular Biology Projects Lab**..... 5
Application of molecular techniques to biological questions. Theory and use of molecular biology methods and study of molecular approaches in current research. Emphasis on experimental design, data interpretation, and development of an independent project. Two lecture and six laboratory hours per week. Prerequisite: BIOL 161/171, 162/172, 163/173, CHEM 123/133, BIOL 240 (all with a C- or better). (winter)
- BIOL 310 Developmental Biology** 5
Early embryo development with consideration of gametogenesis, fertilization, gastrulation, cell differentiation, and organogenesis. Four lecture and three laboratory hours per week. Prerequisites: BIOL 161/171, 162/172, 163/173 (all with C- or better). (spring)

- BIOL 320 Evolution 5**
 Course content includes natural and sexual selection, evolutionary genetics, experiments in evolution, evolution and health, macroevolution, and special topics of our choice. The course format includes lectures, student-led presentations and discussions, and original laboratory research. Student presentations explore the scientific literature, debate their conclusions, and provide practice giving effective talks. The laboratories allow students to research, design, conduct, statistically analyze, and write scientific papers on experiments in evolution. Four lecture and three laboratory hours per week. Prerequisites: BIOL 161/171, 162/172, 163/173 (all with a C- or better). (fall)
- 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. Four lecture and three laboratory hours per week. Prerequisites: BIOL 161/171, 162/172, 163/173 (all with C- or better). (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 340 Epidemiology & Public Health..... 3**
 Introduction to the discipline of epidemiology and its relationship to the field of public health. A survey of the various sub-disciplines of epidemiology and the research methods used in the field. Prerequisites: BIOL 240 and MATH 120, junior standing. (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 161/171, 162/172, 163/173 (all with C- or better) and instructor permission. (winter)
- BIOL 380 Animal Behavior 5**
 Course goals include gaining a broad understanding and an increased fascination for why animals behave as they do, and the skill to create and answer questions in this field of biology. The course examines how genetics, development, ecology and evolution shape behaviors including communication, choosing mates, avoiding predators, finding food, and social interactions. Four lecture and three laboratory hours per week. One weekend field trip. Prerequisites: BIOL 161/171, 162/172, 163/173 (all with a C- or better). (spring)

- 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 161/171, 162/172, 163/173 (all with C- or better); CHEM 337/347 or CHEM 232/242. (spring)
- 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 161/171, 162/172, 163/173 (all with C- or better); CHEM 232/242 or CHEM 337/347. (fall)
- BIOL 391-393 Special Topics** 1 to 5
- BIOL 396 Directed Study** 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 161/171 (with C- or better), 200/210; CHEM 337 or CHEM 232. (spring)
- 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 337, or CHEM 232. (spring)
- 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. Four extended lectures per week. Prerequisites: BIOL 161/171 (with C- or better); BIOL 240 (with C- or better); 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 161/171, 162/172, 163/173 (all with C- or better). Recommended: BIOL 235 or BIOL 252; PSYC 201. (fall, spring)

BIOL 485	Cell Biology	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 hours and three laboratory hours per week. Prerequisites: BIOL 161/171, 162/172, 163/173 (all with C- or better); BIOL 240 (with C- or better) CHEM 337/347 or 232/242. (fall, winter, spring)		
BIOL 487	Biology Senior Synthesis: Independent Experience.....	1 to 4
Gives students the opportunity to integrate their liberal arts background from the core with studies in their major. Varying with individual the student's needs, it may involve independent laboratory or field research, library research, or practical work experience. A written project proposal and final report are required. A minimum of two credits is required of all biology majors. Prerequisites: senior standing in biology major or permission of chair. (fall or winter)		
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 487. (spring)		
BIOL 491-493	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

David L. Thorsell, PhD, 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 clinical laboratory science program is designed to prepare students for professional careers as scientists in medical, biological or biotechnological laboratories. Graduates with a bachelor of science in clinical laboratory science may seek professional certification as medical technologists by being accepted into and completing an additional one-year internship in an accredited clinical laboratory training program (not available at Seattle University).

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 Clinical Laboratory Science

Majors Offered

Chemistry

Chemistry with specialization in Humanities for Teaching

Biochemistry

Clinical Laboratory Science

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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature.....	5
Fine Arts (one approved 5 credit course; see course descriptions).....		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 to 5

*Major requirement.

NOTE: The senior synthesis core requirement for the bachelor of arts degree with a chemistry major is CHEM 488, 489 and 1 to 3 credits of CHEM 499 or 1 credit of CHEM 490.

II. Major Program Requirements

47 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 371	Physical Chemistry Lab I	2

Choose 10 credits from among the following electives..... 10

CHEM 260	Laboratory Safety (2)
CHEM 360	Physical Chemistry I (3)
CHEM 362	Physical Chemistry III (3)
CHEM 372	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 I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3

Choose physics series a or b 15

a. PHYS 105	Mechanics
PHYS 106	Waves, Sound, Electricity and Magnetism
PHYS 107	Thermodynamics, Optics and Modern Physics
b. PHYS 121	Mechanics
PHYS 122	Electricity and Magnetism
PHYS 123	Waves and Optics

Bachelor of Arts Major in Chemistry Specialization in Humanities for Teaching

In order to earn the bachelor of arts degree with a major in chemistry and specialization in humanities in teaching, students must complete a minimum of 180 credits with a cumulative grade point of 2.50 and major/department grade point average of 2.00, including the following:

I. Core Curriculum Requirements

HUMT 150	Composition: Language and Thought	5
HUMT 151	Composition: Language and the Arts	5
HUMT 152	Logic, Ethics, and Discernment	5
HUMT 161	Introduction to Tutoring	2
HUMT 162	Tutoring Practicum.....	1

HUMT 163	Tutoring Practicum.....	1
HUMT 171	Proseminar: Humanistic Foundations of Education	5
HUMT 180	Socio-Cultural Transformations I.....	5
HUMT 181	Socio-Cultural Transformations II	5
HUMT 182	Socio-Cultural Transformations III	5
HUMT 273	Seminar on Secondary Education	5
HUMT 274	Supervised Internship in Secondary Education	5
HUMT 301	Perspectives on the Person I.....	5
HUMT 302	Perspectives on the Person II.....	5
HUMT 371	Education and the Polity.....	5
HUMT 372	Leadership and Teaching.....	5
HUMT 380	Cultural Interface.....	5
HUMT 400	Seminar on Contemporary Problems	5
HUMT 471	Jesuit Education.....	5
HUMT 472	Jesuit Education Practicum	5
CISS 120	Poverty in America.....	5

II. Major Program Requirements

CHEM 121/131	General Chemistry I	5
CHEM 122/132	General Chemistry II	5
CHEM 123/133	General Chemistry III	5
CHEM 231/241	Fundamental Organic Chemistry I	6
CHEM 232/242	Fundamental Organic Chemistry II	6
CHEM 319	Quantitative Analysis.....	5
CHEM 361	Physical Chemistry II	3
CHEM 371	Physical Chemistry Lab I	2
CHEM 260	Laboratory Safety	2
CHEM 454	Biochemistry I	3
CHEM 488/489	Senior Synthesis.....	3

Choose 5 credits from the following electives:..... 5

CHEM 360	Physical Chemistry I (3)
CHEM 362	Physical Chemistry III (3)
CHEM 372	Physical Chemistry Lab (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 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)

III. Other Major Department Requirements

BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
MATH 134	Calculus I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
Choose option a or b.....		15
a. PHYS 105	Mechanics	
PHYS 106	Waves, Sound, Electricity and Magnetism	
PHYS 107	Thermodynamics, Optics and Modern Physics	
b. PHYS 121	Mechanics	
PHYS 122	Electricity and Magnetism	
PHYS 123	Waves and Optics	

NOTE: For a secondary endorsement in general science, 5 credits of earth science is required.

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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature.....	5
Fine Arts (one approved 5 credit course; see course descriptions).....		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

*Major requirement.

II. Major Requirements

60 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 361	Physical Chemistry II	3
CHEM 371	Physical Chemistry Lab I	2
CHEM 362	Physical Chemistry III	3
CHEM 372	Physical Chemistry Lab II	2
CHEM 426	Instrumental Analysis	5
CHEM	Electives (400 level)	6

III. Other Major Department Requirements

MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
PHYS 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics	5

NOTE: 1. For the American Chemical Society certified degree option, the 6-credit elective, above under II, must be replaced by CHEM 415, CHEM 425, CHEM 454, CHEM 464, and three additional credits of approved advanced work in chemistry (CHEM 499 is acceptable here). 2. For students planning graduate work, any of the courses, MATH 233, MATH 234, or CHEM 415, 425, 436, 454, 455, 456, 464, and 465 are strongly recommended as electives. 3. The senior synthesis core requirement for the bachelor of science degree 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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Fine Arts (one approved 5 cr. course; see course descriptions)		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

*Major requirement

II. Major Requirements

60 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 371	Physical Chemistry Lab I	2
CHEM 415	Advanced Inorganic Chemistry	3
CHEM 454	Biochemistry I	3
CHEM 455	Biochemistry II	2
CHEM 456	Biochemistry III	3

CHEM 464	Biochemistry Lab 1	2
CHEM 465	Biochemistry Lab II	1
Choose option a or b.....		5
a. CHEM 426	Instrumental Analysis (5)	
b. CHEM 362	Physical Chemistry III (3)	
CHEM 372	Physical Chemistry Lab II (2)	

III. Other Major Department Requirements

BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
Choose 10 credits from the following six courses:		10
BIOL 163	Biology III: Physiology and Development (4)	
BIOL 173	Biology III Lab (1)	
BIOL 240	Genetics (5)	
BIOL 300	Microbiology (5)	
BIOL 440	Molecular Genetics (5)	
BIOL 485	Cell Biology (5)	
MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
PHYS 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics	5

NOTE: 1. For the American Chemical Society certified degree option, the student must take CHEM 425 and both CHEM 426 and CHEM 362/372. CHEM 360 and 362/372 are highly recommended electives for students planning graduate work in biochemistry. 2. The senior synthesis core requirement for the bachelor of science degree in biochemistry is CHEM 488, 489 and 1 to 3 credits of CHEM 499.

Bachelor of Science in Clinical Laboratory Science

In order to earn the bachelor of science in clinical laboratory science, students must complete a minimum of 180 quarter credits with a cumulative and major/department grade point average of 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to 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

*Major requirement.

NOTE: The senior synthesis core requirement for the bachelor of science in clinical laboratory science degree is CHEM 488, 489 and 1 to 3 credits of CHEM 499 or 1 credit of CHEM 490

II. Major Requirements

41 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 1.....	2
CHEM 465	Biochemistry Lab II.....	1
CHEM	Electives.....	1

III. Other Major Department Requirements

Choose two of the following three courses with corresponding lab:..... 10

BIOL 161	Biology I: Molecular and Cellular Biology	
BIOL 171	Biology I Lab	
BIOL 162	Biology II: Evolution and Ecology	
BIOL 172	Biology II Lab	
BIOL 163	Biology III: Physiology and Development	
BIOL 173	Biology III Lab	
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	5
BIOL 415 Fundamentals of Immunology	3
BIOL 485 Cell Biology	5
BIOL	Electives
CSSE 103	Introduction to Computers and Applications
MATH 134	Calculus I
PHYS 105	Mechanics
PHYS 106	Waves, Sound, Electricity and Magnetism

NOTE: 1. Professional certification as a medical technologist requires a one-year internship in an accredited laboratory-training program (not at Seattle University) 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 bachelor of science degree in Clinical Laboratory Science 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

*1 credit from CHEM/CRJS 480 Forensic Science may apply towards the CHEM elective requirement in the minor.

See policy for minors (84-1) for more information.

Chemistry Courses

Credit may be received for only one of each of the following sets of courses: CHEM 231/330/335; 232/331/336; 241/345; 242/346. A student who completes CHEM 231 with a grade of B or better may enroll in CHEM 336 with the instructor permission.

All prerequisite courses must be completed with a grade of C- or better for the prerequisite to be fulfilled.

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, winter, spring)		

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.		
CHEM 105	Introduction to Environmental Chemistry	5
Basic chemistry in the context of environmental processes, such as greenhouse gases, global warming, ozone, energy production and consumption, and groundwater contamination. Evaluation of the impact modern human life has upon the environment, and assessment of current topical literature. Fulfills core lab science requirement.		
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. Co-requisite: CHEM 131. (fall, winter)		
CHEM 122	General Chemistry II	4
Thermochemistry, gases, solutions, equilibria. Four lectures per week. Prerequisite: CHEM 121. Co-requisites: CHEM 132 and MATH 120 or placement at a 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 and MATH 120. Co-requisite: 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. Co-requisites: 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. Co-requisite: 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: I) alkanes, alkenes, alkynes, alkyl halides, aromatic, and heteroaromatic compounds; II) 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. Consult advisor for adequacy of 200 level organic chemistry series to satisfy admission requirements for specific medical schools. Prerequisites: CHEM 123 for 231; 231 for 232. (231 winter; 232 spring)		

- 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. Co-requisite: 231 for 241; 232 for 242. Prerequisite: CHEM 133 for 241; 241 for 242. (241 winter; 242 spring)
- 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. (winter)
- CHEM 291-293 Special Topics** 1 to 5
CHEM 296 Directed Study 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, 133 and junior level standing or permission of chair. (fall, winter)
- CHEM 330 Organic Chemistry IA** 4
CHEM 331 Organic Chemistry IIA 4
 Structural theory, functional groups, nomenclature, stereochemistry, kinetics and thermodynamics of organic reactions, syntheses of organic compounds and applications. Emphasizes the use of kinetic and non-kinetic methods in the determination of reaction mechanisms, and qualitative structure-reactivity correlations. IA: Hydrocarbons, alkyl halides, ethers and alcohols, spectroscopy. IIA: Aromatics, aldehydes and ketones, carboxylic acids and their derivatives, amines, carbohydrates and lipids. Prerequisites: one year of general chemistry with laboratory for 330; CHEM 330 or one semester of organic chemistry for 331. Co-requisites: CHEM 345 (2 cr) Organic Chemistry Laboratory I for 330; CHEM 346 (2 cr) Organic Chemistry Laboratory II for 331. Offered summer only, 330 in first four weeks and 331 in second four weeks.
- CHEM 332 Organic Chemistry IIIA** 2
 The chemistry of carbanions, amino acids, proteins and nucleic acids. Offered concurrently with CHEM 337 in spring quarter. A new course for students wanting credit for the 300-level organic series. NOTE: CHEM 330-332 are equivalent to CHEM 335-337. Prerequisite: CHEM 331.
- 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. Prerequisite: CHEM 123. (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. Prerequisite: CHEM 335. (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. Prerequisite: CHEM 336. (spring)		
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. Co-requisite: 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. Co-requisite: 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) Co-requisite: 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 232, and one year of physics for CHEM 360 and CHEM 361; CHEM 361 for CHEM 362. (360 fall, 361 winter, 362 spring).		
CHEM 371	Physical Chemistry Laboratory I	2
CHEM 372	Physical Chemistry Laboratory II	2
Quantitative measurements of physical chemical phenomena, detailed data analysis, and evaluation. Four laboratory hours per week. Prerequisites: CHEM 319 for CHEM 371; CHEM 371 for CHEM 372. CHEM 361 is co-requisite or prerequisite for CHEM 371; CHEM 362 is a co-requisite or prerequisite for CHEM 372. (371 winter, 372 spring)		
CHEM 391-393	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. Co-requisite: CHEM 415. (spring)
- CHEM 426 Instrumental Analysis 5**
Theory and techniques of instrumental methods representative of spectrometric, electro-analytical and chromatographic techniques. Two lecture and two four-hour laboratory periods per week. Prerequisites: CHEM 319, 361. (spring)
- CHEM 436 Advanced Organic Chemistry 3**
Advanced topics in organic chemistry. Directed reading and/or lectures. Prerequisite: CHEM 361 and one year of organic chemistry. (fall)
- 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 161 and 171 or permission of chair; 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; CHEM 319. Co-requisite: 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. Co-requisite: CHEM 455. (winter)
- CHEM 480-483 Interdisciplinary Core Course 3 to 5**
Title and content change each term.

CHEM 488	Senior Synthesis Seminar I	1
CHEM 488	Senior Synthesis Seminar I	1
Initiation of a research project. Includes online 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. Prerequisites: CHEM 232 or CHEM 336, minimum 10 credits of chemistry at SU or permission of chair. (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, including in-depth investigation of scientific or clinical topics. Prerequisites: CHEM 488 and permission of chair.		
CHEM 491-493	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

Phillip Thompson, PhD, PE, 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 mission of the Civil and Environmental Engineering Department is to provide educational opportunities for students seeking to enter the civil engineering profession, so that they can achieve competence in the field while recognizing their social responsibilities. The program provides a strong foundation in the areas of mathematics, basic and engineering sciences, and the humanities and social sciences. It encourages further self development and life-long intellectual achievement. The program seeks to build student skills in written and oral communication, and a sense of poise and professionalism.

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 of the civil engineering program are to prepare graduates in the following areas:

- **Technical Proficiency:** Ability to apply a technical core of knowledge in mathematics, science, and civil engineering, which includes understanding the fundamentals of several recognized civil engineering areas (e.g., environmental, geotechnical, structural, and water resources engineering).
- **Communications Skills:** Ability to communicate effectively including writing, speaking, listening, and observing and to use graphics, the worldwide web, and other communication tools.
- **Professional Skills:** Ability to use the broad spectrum of skills needed in professional practice including teamwork, leadership, and project and business management, and an understanding of professional ethics, contemporary issues, safety, and economics.
- **Personal Breadth:** Understanding of non-technical aspects of engineering, including ethical considerations, concern for society and the environment, and multicultural perspectives, as well as a commitment to life-long learning and service to the professional and civic communities.

Degree Offered

Bachelor of Science in Civil Engineering

Majors Offered

Civil Engineering

Civil Engineering with specialization in Environmental Engineering

Minor Offered

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, computer 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 (2.00) or higher may be transferred into the department to offset degree requirements.

For graduation, a minimum 2.50 cumulative grade point average is required, as well as a minimum 2.50 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. The civil engineering program is accredited by the Engineering Accreditation Commission of ABET, formerly known as the Accreditation Board for Engineering and Technology.

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 2.50, 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	College Writing: Inquiry and Argument	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	Introduction to 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.		

II. Major Requirements

83 credits, including:

CEEGR 105	Civil Engineering Graphics and Communication.....	3
CEEGR 221	Mechanics of Materials I.....	4
CEEGR 222	Mechanics of Materials Lab I.....	2
CEEGR 311	Engineering Measurements	4
CEEGR 323	Mechanics of Materials II	5
CEEGR 331	Fluid Mechanics	4
CEEGR 335	Applied Hydraulics.....	5
CEEGR 337	Fluids Lab.....	1
CEEGR 342	Environmental Engineering Chemistry	4
CEEGR 351	Engineering Geology	4
CEEGR 353	Soil Mechanics	5
CEEGR 371	Water Resources I	3
CEEGR 402	Engineering Economy	3
CEEGR 445	Structural Mechanics	5
CEEGR 473	Principles of Environmental Engineering	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	Water Supply and Wastewater Engineering	
CEEGR 475	Hazardous Waste Engineering	

Choose one of the following four courses:..... 4

CEEGR 343	Air Pollution Engineering	
CEEGR 425	Transportation Engineering	
CEEGR 455	Foundation Design	
CEEGR 472	Water Resources II	

III. Other Major Department Requirements

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
MEGR 210	Statics	4
MEGR 230	Dynamics.....	4
MEGR 281	Engineering Methods.....	4
MATH 134	Calculus I	5
MATH 135	Calculus II.....	5
MATH 136	Calculus 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 244	Probability and Statistics	
MATH 351	Probability	
PHYS 121	Mechanics 5	
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics.....	5
Elective	(CEEGR 100 recommended)	2

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 the core curriculum and 192 credits total. A cumulative 2.50 grade point average is required, in addition to a 2.50 average in major/department requirements, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to 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

78 credits, including:

CEEGR 105	Civil Engineering Graphics and Communication.....	3
CEEGR 221	Mechanics of Materials I.....	4
CEEGR 311	Engineering Measurements	4
CEEGR 325	Applied Engineering Mechanics	3
CEEGR 331	Fluid Mechanics	4

CEEGR 335	Applied Hydraulics	5
CEEGR 337	Fluids Lab	1
CEEGR 341	Biological Principles for Environmental Engineers	4
CEEGR 342	Environmental Engineering Chemistry	4
CEEGR 351	Engineering Geology	4
CEEGR 353	Soil Mechanics	5
CEEGR 371	Water Resources I	3
CEEGR 402	Engineering Economy	3
CEEGR 473	Principles of Environmental Engineering	5
CEEGR 474	Water Supply and Wastewater Engineering	5
CEEGR 475	Hazardous Waste Engineering	5
CEEGR 487	Engineering Design I	4
CEEGR 488	Engineering Design II	4
CEEGR 489	Engineering Design III	4
Choose one of the following four courses:		4
CEEGR 343	Air Pollution Engineering	
CEEGR 425	Transportation Engineering	
CEEGR 455	Foundation Design	
CEEGR 472	Water Resources II	

III. Other Major Department Requirements

CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
MEGR 210	Statics	4
MEGR 230	Dynamics	4
MEGR 281	Engineering Methods	4
MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus 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 244	Probability and Statistics	
MATH 351	Probability	

PHYS 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics	5

Choose one of the following two options: 5

a. BIOL 101	Principles of Biology	
b. BIOL 161	Biology I: Molecular and Cellular Biology	
BIOL 171	Biology I Lab	

Elective	(CEEGR 100 recommended)	2
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Note: Fundamentals of Engineering (FE) examination is required for graduation.

Minor in Environmental Engineering

To earn a minor in environmental engineering, students must complete a minimum of 30 credits in civil and environmental engineering, including:

CEEGR 341	Biological Principles for Environmental Engineers.....	4
CEEGR 342	Environmental Engineering Chemistry	4
CEEGR 343	Air Pollution Engineering.....	4
CEEGR 351	Engineering Geology	4
CEEGR 473	Principles of Environmental Engineering	5
CEEGR 476	Environmental Law and Impact Studies	3
Approved CEEGR courses (300 or higher)		6

Students majoring in civil engineering are not eligible for this minor. See policy for minors (84-1) for more information.

Civil and Environmental Engineering Courses

CEEGR 100 Introduction to Civil and Environmental Engineering..... 2

Investigation of some major branches of civil and environmental engineering at the introductory level. Introduction to the profession through lectures from faculty and practicing civil engineers, field trips to construction sites and design offices and hands-on demonstrations. Research of contemporary and significant civil engineering projects. Recommended for students majoring in civil and environmental engineering. Open to all students wishing to explore the possibilities of civil and environmental engineering as a career. (fall)

CEEGR 105 Civil Engineering Graphics and Communication..... 3

An introduction into the drawing production and communication process in civil engineering. Sketching, drawing interpretation, plan views, sections, elevations, dimensioning, abbreviations, and professional written communication. Development of drawing packages using AutoCAD with emphasis on professional drawing production. Three two-hour sessions per week. Laboratory. Prerequisite or co-requisite: MATH 121 or equivalent. (fall, spring)

CEEGR 221 Mechanics 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 per week. Prerequisites: MEGR 210, MATH 136. (fall, spring)

CEEGR 222 Mechanics 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 co-requisite: CEEGR 221. (fall, spring)

CEEGR 291-293 Special Topics 1 to 5

CEEGR 296 Directed Study..... 1 to 5

- CEEGR 311 Engineering Measurements..... 4**
 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. Three lectures and one laboratory period per week. Prerequisites: MATH 120, 121, and CEEGR 105. (spring)
- CEEGR 323 Mechanics of Materials II 5**
 Continuation of the mechanics of solid deformable bodies. Beam topics, stability of columns, combined stresses and strains, fatigue and energy relationships. Laboratory experiments on the mechanics of solid deformable bodies and the stresses and deformations produced. Improving technical writing skills; use of spreadsheets and computer graphics. Four lecture hours and one three-hour laboratory per week. Prerequisites: CEEGR 221, MATH 234. (winter)
- CEEGR 325 Applied Engineering Mechanics 3**
 Advanced topics in mechanics of materials and structural analysis for students not specializing in structures. Combine stress states, calculation of beam deflections, column stability and theories of failure. Three lecture hours per week. Prerequisites: CEEGR 221, MATH 234. (winter)
- CEEGR 331 Fluid Mechanics 4**
 Fluid properties. Elementary mechanics of incompressible fluids. Hydrostatics and fluid kinematics. Continuity and energy equations. Pump and turbine power calculations. Fluid resistance phenomena and estimations for laminar and turbulent flows. Momentum equation and dynamic forces. Dynamic similitude and hydraulic modeling. Pre or co-requisite: MEGR 230. (fall, winter)
- CEEGR 335 Applied Hydraulics 5**
 Extension and application of fluid mechanics principles with laboratory. Pipes in series and in parallel. Branching pipes and pipe networks. Pipeline system curves. Basic hydraulic machinery. Analysis of pumping systems. Basic open channel flow. Backwater analysis. Culverts. Four lecture hours and one three-hour laboratory per week. Prerequisite: CEEGR 331. (winter, spring)
- CEEGR 337 Fluids Laboratory..... 1**
 Experimental calibration of various flow meters, loss coefficients, and pipe friction factors. Experimental verification of various principles of fluid mechanics. One three-hour laboratory per week. Co-requisite (CEEGR Majors only): CEEGR 331. (fall, winter)
- 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 161 and 171 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, or equivalent. (spring)
- 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 or environmental science recommended. (spring)
- CEEGR 351 Engineering Geology** 4
Mineralogy of rocks; types of rocks, their formation, structure and engineering properties; plate tectonics; structural geology; seismicity; introduction to and use of topographic maps, aerial photographs and geologic maps in engineering projects. Geotechnical field exploration techniques. Slope stability issues. Erosional and depositional land forms of rivers and glaciers. Engineering geology in contemporary civil engineering projects. Four lecture hours per week. (fall)
- CEEGR 353 Soil Mechanics** 5
Engineering properties and classification of soils; compaction, permeability, effective stress concept, consolidation, settlements and time rate of settlements, shear strength of soils, strength measurements of soils, field investigation. Four lecture hours and one laboratory session per week. Prerequisites: CEEGR 221, CEEGR 351. Pre- or co-requisite: CEEGR 331. (winter)
- CEEGR 371 Water Resources I** 3
Hydrologic data sources, collection, and analysis, including frequency analysis. Precipitation, runoff, evaporation, and transpiration. Analysis of stream flow, hydrographs, flood mitigation, and drainage basins. Prerequisite: CEEGR 331, Co-requisite or prerequisite: MATH 244 or MATH 351. (spring)
- CEEGR 391-393 Special Topics** 1 to 5
- CEEGR 396 Directed Study** 1 to 5
- CEEGR 402 Engineering Economy** 3
Elements of immediate and long-term economy of facility design, construction and maintenance; interest rates, present worth and prospective return on investment; depreciation and replacement studies. (fall, winter)
- CEEGR 403 Project and Systems Management** 5
Introduction to project and construction management. How to plan and organize these services. Network scheduling, contracting procedures, risk, analysis, and estimating. Senior standing recommended.

- CEEGR 425 Transportation Engineering..... 4**
Introduction to the fundamentals of highway transportation systems. Methods of predicting travel demand and capacity supply. Use of field surveys and statistical representation of traffic characteristics. Urban transportation planning and design. Roadway design. (winter)
- CEEGR 445 Structural Mechanics 5**
Classical and matrix methods in structural mechanics. Introduction to finite element analysis, dynamic response of structures, structural idealization and computer modeling. Prerequisite: CEEGR 323. (fall)
- CEEGR 447 Structural Design I..... 5**
- CEEGR 449 Structural Design II..... 5**
Design of structural members and connections. Specific structural design building codes. I. Steel design. II. Reinforced and prestressed concrete design. Prerequisite: CEEGR 445. (447 winter, 449 spring)
- CEEGR 455 Foundation Design 4**
Design considerations for foundations. Introduction to Terzaghi's bearing capacity theory and lateral earth pressure theory. Design of shallow and deep foundations. Design of retaining walls, sheet pile walls and anchored retaining structures. Slope stability analysis. Correlation of soil properties based on subsurface exploration results. Prerequisite: CEEGR 353. (spring)
- CEEGR 472 Water Resources II..... 4**
Streamflow routing process. Hydrograph analysis and synthesis. Reservoir capacity, operation, and routing processes. Subsurface hydrology. Well hydraulics. Erosion and sedimentation. Prerequisite: CEEGR 371. (fall)
- CEEGR 473 Principles of Environmental Engineering 5**
Introduction to water and wastewater treatment processes, air pollution control and hazardous waste management through the understanding of physical, chemical, and biological processes as well as mass balance analyses. Four lectures and one laboratory or field trip per week. Prerequisites: CHEM 121, CHEM 131, CEEGR 342. (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 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 or instructor permission. (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.		
CEEGR 487	Engineering Design I	
Design process, problem solving and decision making, project planning and scheduling, team dynamics, resume writing, networking and interviewing skills, interaction with the professional engineering community, developing technical writing and oral communication skills. Engineering proposal preparation for senior capstone project. Senior standing required. (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. (488 winter, 489 spring)		
CEEGR 491-493	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

William G. Poole, 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 such 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 advisor 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*

Majors Offered

Computer Science

Computer Science with Specialization in Mathematics

Computer Science with Specialization in Business

Minor Offered

Computer Science

Departmental Requirements

A grade of C (2.00) is required in all CSSE courses that are prerequisites to other required CSSE courses. Only courses graded C (2.00) or higher may be transferred to satisfy degree requirements. Transfer credits in the major require departmental approval. 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. Both the cumulative grade point average and grade point average for major/department courses completed at Seattle University must be at least 2.50 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 2.50 or better.

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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
Fine Arts (one approved 5 credit course, see course descriptions).....		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 satisfied by CSSE 481		
Senior Synthesis filled by CSSE 486, 488, and 489.		

II. Major Requirements

59 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 308	Technical Communications.....	3

CSSE 370	Fundamentals of Databases I	5
CSSE 380	Organization of Programming Languages	5
CSSE 481	The Art of Web Design	5
CSSE XXX	CSSE Electives	15
(10 Credits must be 300 level or above, excluding CSSE 482-483, 486-489)		
CSSE 486	Software Engineering Project	5
CSSE 488	Software Engineering & Project Development II	3
CSSE 489	Software Engineering & Project Development III	3

III. Other Major Department Requirements

45 credits including:

MATH 134	Calculus I	5
MATH 135	Calculus II	5

Choose one of the following two courses:

MATH 244	Probability and Statistics
MATH 351	Probability

*Area of Application

*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.

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 2.50 or better.

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Fine Arts (one approved 5 credit course, see course descriptions)		
PHIL 220	Philosophy of the Human Person	5
Social Science I		
Social Science II (different discipline from Social Science I)		
Theology and Religious Studies Phase II (200-299)		

Ethics (upper division).....	5
Theology and Religious Studies Phase III (300-399)	5
Interdisciplinary	3
Senior Synthesis filled by CSSE 487, 488, 489	

II. Major Requirements

84 credits in computer science, including:

CSSE 151	Fundamentals of Computer Science I	5
CSSE 152	Fundamentals of Computer Science II	5
CSSE 210	Foundations of Computer Science	5
CSSE 250	Data Structures.....	5
CSSE 251	Introduction to Computer Organization	5
CSSE 308	Technical Communications.....	3
CSSE 310	Design and Analysis of Algorithms	5
CSSE 320	Object-Oriented Development.....	5
CSSE 340	Operating Systems	5
CSSE 350	Theoretical Computer Science	5
CSSE 370	Fundamentals of Databases I	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 4XX	Electives (400-level, excluding 480-483, 486-489)	15

III. Other Major Department Requirements

38 credits in mathematics, physics, and science including:

MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus III	5
MATH 233	Linear Algebra	3
PHYS 121	Mechanics	5

Choose two of the following six options:..... 10

PHYS 122	Electricity and Magnetism
PHYS 123	Waves and Optics
BIOL 161 & 171	Biology I: Molecular and Cellular Biology and Lab
BIOL 240	Genetics
CHEM 121 & 131	General Chemistry I and Lab
CHEM 122 & 132	General Chemistry II and Lab

Choose one of the following two courses:..... 5

MATH 244	Fundamentals of Probability and Statistics
MATH 351	Probability

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 (59 credits), the student will take at least 30 credits of business 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 2.50 or better.

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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
Fine Arts (one approved 5 credit course; see course descriptions).....		5
PHIL 220	Philosophy of the Human Person	5
Social Science I (not economics)		5
Social Science II filled by ECON 271		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 by CSSE 481		
Senior Synthesis filled by CSSE 487, 488, 489		

II. Major Requirements

59 credits in computer science, including:

CSSE 151	Fundamentals of Computer Science I	5
CSSE 152	Fundamentals of Computer Science II	5
CSSE 210	Foundations of Computer Science	5
CSSE 250	Data Structures	5
CSSE 308	Technical Communications.....	3
CSSE 310	Design and Analysis of Algorithms	5
CSSE 320	Object-Oriented Development.....	5
CSSE 370	Fundamentals of Databases I	5
CSSE 380	Organization of Programming Languages	5
CSSE 481	The Art of Web Design	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

III. Business Specialization Requirements

30 credit hours in ASBE satisfying one of the following:

Courses required for minor in Accounting or	30
Courses required for minor in Business Administration or	30
Courses required for minor in Economics or	30
Courses required for minor in International Business or	30
30 Approved credit hours of upper-level ASBE courses	30

IV. Other Major Department Requirements

28 credits including:

MATH 134	Calculus I	5
MATH 135	Calculus II	5
Three Credit Elective		3

Choose two of the following four courses: 10

CSSE 460	Computer Networks
CSSE 471	Fundamentals of Databases II
ECIS 462	Internet Marketing
ECIS 469	Business Data Communication

Choose one of the following two courses: 5

ECON 260	Business Statistics
ECON 310	Quantitative Methods and Applications

NOTE: 1. Each student must complete a business specialization in accounting, business administration, economics or international business, by completing the courses specified by the ASBE for these minors in the chosen area of specialization. Students should be aware that the ASBE does not allow students completing this program to also minor in business administration. 2. BSCS 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. 3. Business courses are subject to the same grade minimums as for business administration majors. 4. The total number of business credits, prerequisite plus required credit hours in business cannot exceed 24% of a student's total credit hours (ECON 260, ECON 271, ECON 310 do not count as business hours).

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 2.50 or better.

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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
Fine Arts (one approved 5 credit course; see course descriptions).....		5
PHIL 220	Philosophy of the Human Person	5
PHYS 121	Mechanics	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		

II. Major Requirements

64 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 Communications.....	3
CSSE 310	Design and Analysis of Algorithms	5
CSSE 320	Object-Oriented Development.....	5
CSSE 340	Operating Systems.....	5
CSSE 350	Theoretical Computer Science	5
CSSE 370	Fundamentals of Databases I	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

III. Mathematics Specialization Requirements

50 credits in mathematics courses, including:

MATH 134	Calculus I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus 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
CSSE 210	Foundations of Computer Science
MATH 310	Introduction to Advanced Mathematics
Choose one of the following two courses:	5
MATH 244	Probability and Statistics
MATH 351	Probability
Choose three of the following four courses:.....	15
MATH 331	Introduction to Complex Variables
MATH 361	Applied Mathematics I
MATH 371	Introduction to Numerical Methods
MATH 461	Applied Mathematics II

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

Choose 5 credits from:

CSSE 320	Object-Oriented Development.....	5
CSSE 380	Organization of Programming Languages	5

Choose an additional 10 credits from:

CSSE 310	Design and Analysis of Algorithms	5
CSSE 320	Object-Oriented Development.....	5
CSSE 340	Operating Systems.....	5
CSSE 350	Theoretical Computer Science	5
CSSE 370	Fundamentals of Databases I	5
CSSE 380	Organization of Programming Languages	5
CSSE 422	Design Patterns.....	5
CSSE 444	Concurrent and Distributed Systems	5
CSSE 460	Computer Networks.....	5
CSSE 465	Computer Graphics	5
CSSE 470	Artificial Intelligence	5
CSSE 471	Fundamentals of Databases II	5
CSSE 481	The Art of Web Design	5
CSSE 485	Compiler Principles and Techniques	5

See policy for minors (84-1) for more information.

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. (fall, winter, spring)

CSSE 108 Database Applications 5

An introduction to databases for the non-computer science major. Includes relational database modeling (using a DBMS such as Microsoft Access), designing the database, creating the tables, reports, forms and queries. Other topics may include transferring data between spreadsheets and database, automating applications, linking to other databases and database security.

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: MATH 134.

CSSE 152 Fundamentals of Computer Science II 5

Continuation of the introduction to the fundamentals of computer science, including abstract data types (ADTs), recursion, linked lists, stacks, queues, binary trees and function overloading. Prerequisite: C (2.00) or better in CSSE 151.

CSSE 191 -193 Special Topics 1 to 5

CSSE 205 Programming for Web & Business Applications 5

An introduction to graphical user interface programming and applications using a simplified programming language (such as Visual Basic). Topics include simple event-driven programming and interface design. Other topics may include web form, working with graphics and an introduction to object-oriented programming.

CSSE 210 Foundations of Computer Science 5

Introduction to logic, digital logic design and other applications of logic to computer science, functions, combinatorics, equivalence relations, methods of proof, induction, recurrence relations and recursion in programming languages, graphs, graph implementations and applications. Prerequisites: MATH 135 and a C (2.00) or better in CSSE 152.

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: MEGR 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: MEGR 230; plus MATH 232 and 233.
- CSSE 250 Data Structures 5**
 Abstract data types. Big-Oh notation. Heaps, sorting (Quicksort, Mergesort, Heapsort), binary search trees, tree balancing techniques, and hashing. Additional topics may include B trees. Prerequisite: C (2.00) or better in CSSE 152.
- CSSE 251 Introduction to Computer Organization 5**
 Basic concepts of digital logic design, computer hardware (CPU components, memory hierarchies, I/O, interrupts), data representation (integer and floating point, characters, arrays, and structured data), Instruction Set Architectures (design trade-offs, RISC vs CISC, assembly language and machine language, realizations of high-level language constructs). Implementation via programming in an assembly language. Prerequisite: a C (2.00) or better in CSSE 152.
- CSSE 291-293 Special Topics 1 to 5**
- CSSE 296 Directed Study 1 to 5**
- CSSE 308 Technical Communications 3**
 Communication skills for computer professionals. Writing, speaking, electronic communication. Structure and content of software documentation. CS Majors are to take this course concurrently with CSSE 487 or 486, the first quarter of the capstone software project course. Prerequisite: ENGL 110 and C (2.00) or better in CSSE 250.
- CSSE 310 Design and Analysis of Algorithms 5**
 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. Prerequisites: a C (2.00) or better in CSSE 250 and either MATH 310 or a C (2.00) or better in CSSE 210.
- CSSE 320 Object-Oriented Development 5**
 Fundamentals and principles of object-oriented development, including classes, containment, inheritance, overloading and polymorphism. Object-oriented analysis, design and programming. Prerequisite: C (2.00) or better in CSSE 250.
- CSSE 340 Operating Systems 5**
 Computer system overview (devices, interrupts, memory hierarchy), and the basic concepts of operating systems from an applications programming perspective. Topics include processes, process scheduling, threads, deadlock, synchronization, memory management, I/O, and networking. Pre-requisites: a C (2.00) or better in CSSE 250 and a C (2.00) or better in either CSSE 251 or ECEGR 304.

- CSSE 350 Theoretical Computer Science 5**
 An introduction to the formal mathematical basis of computer science and functional language programming. Topics include regular sets (finite automata, regular expressions, regular grammars, applications), context-free languages (grammars, pushdown automata, normal forms, applications), Turing machines, and functional programming. Prerequisites: a C (2.00) or better in CSSE 250 and either MATH 310 or a C (2.00) or better in CSSE 210.
- CSSE 370 Fundamentals of Databases I 5**
 Introduction to database management systems, architecture, architecture, and environment. Relational database design including data modeling and schema design. Coverage of SQL query language for application development. Overview fundamental concepts of transaction management, security and recovery control. Prerequisite: a C (2.00) or better in CSSE 250.
- CSSE 380 Organization of Programming Languages 5**
 Overview of common features, organization and tradeoffs of modern programming languages, with an emphasis on scripting languages. Semantics, garbage collection and memory management issues, and type systems. Prerequisite: C (2.00) or better in CSSE 250.
- CSSE 391-393 Special Topics 1 to 5**
- CSSE 396 Directed Study 1 to 5**
- CSSE 422 Design Patterns 5**
 Categorization of standard design patterns, their use, expected benefit(s) and associated cost(s). Explication and analysis of creational, interface, structural and behavioral patterns. Prerequisite: C (2.00) or better in CSSE 320.
- CSSE 444 Concurrent and Distributed Systems 5**
 Parallel computation using multiple interacting systems. Distributed system architectures, cluster computing including Beowulf clusters, peer-to-peer architectures. Adapting algorithms for parallel computation. Fault tolerance, scalability, resource sharing. Prerequisites: a C (2.00) or better in CSSE 340 and a C (2.00) or better in CSSE 310.
- CSSE 460 Computer Networks 5**
 The principles of networking with emphasis on the TCP/IP protocol suite upon which the Internet is based. Client-server network programming. Topics include layering of network protocols, application protocols such as HTTP, reliable data transfer, routing, and link layer protocols such as Ethernet. Prerequisite: a C (2.00) or better in CSSE 340.
- 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: a C (2.00) or better in CSSE 250 and either MATH 310 or a C (2.0) or better in CSSE 210.

- 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 (2.00) or better in CSSE 310 and CSSE 380.
- CSSE 471 Fundamentals of Databases II..... 5**
A continuation of the CSSE 370 Fundamentals of Databases I course. Topics include advanced data models including the enhanced entity relationship model, object-oriented and object-relational data models, physical data storage in database systems, transaction processing, concurrency control, recovery techniques, query processing and optimization, database security and authorization, and more advanced application programming for database systems covered in the 370 course. Prerequisite: C (2.00) or better in CSSE 370.
- CSSE 480 Interdisciplinary Core Course 3 to 5**
Title and content vary.
- CSSE 481 The Art of Web Design..... 5**
An introduction to website design with emphasis on the area of human computer interaction (HCI). Topics include defining the audience, planning the site, prototyping and testing the design. HCI topics include an introduction to cognitive psychology, user-centered design methodology and memory characteristics as pertains to interface design. Technical aspects of creating a site include basic text markup, scripting languages and other web tools. Core interdisciplinary option. Cannot be used as a CSSE 400-level elective. Prerequisite: PHIL 110.
- CSSE 482 Computer Games: Design and Effect..... 3**
Examine and create computer games with an emphasis on the perspectives of storytelling and strategic thinking. Evaluate game genres, play and icons with respect to cultural impact and relevance to audience considerations such as age, race, gender and other factors. Fundamental problem-solving techniques explored for implementation via an easy-to-use programming design tool. Cannot be used as a CSSE 400-level elective. Core interdisciplinary option. Pre/Co-requisite: ENGL 120.
- CSSE 483 CyberSecurity 3**
Overview of computer security issues at both the personal computer, local area network and Internet computing levels. Of interest to students in business, communication, criminal justice, economics, political science, psychology, science and sociology. Topics include attacks and threats on computer systems such as unwanted email, viruses, hackers, spyware and denial of services; identity and monetary theft by discovering banking and credit card information via banks, retail outlets, Internet web sites and other business entities; and countermeasures that one should take such as adding computer firewalls, installing and updating security software, and a plan for backup and disaster recovery. Examples of actual cases are presented and analyzed along with suggestions for improving security on them. Cannot be used as a CSSE 400-level elective. Core interdisciplinary option.

CSSE 485	Compiler Principles and Techniques	5
Lexical analyzers, top and bottom-up parsing and LL(k), LR, etc. grammars, symbol tables, internal forms and intermediate languages, code generation, code optimization, semantic specifications, error detection and recovery, comparison methods. Use of software tools for lexical analysis and parsing. Prerequisites: C (2.00) or better in CSSE 251, CSSE 350 and CSSE 380.		
CSSE 486	Software Engineering Project	5
Meets regularly in the fall quarter, to cover the principles of software engineering, and to initiate software project activities. Prerequisite: C (2.00) or better in CSSE 370, CSSE 380, CSSE 481 and a major GPA of 2.50 or higher. Co-requisite: CSSE 308.		
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: C (2.00) or better in CSSE 310, CSSE 320, CSSE 370, and CSSE 380 and a major GPA of 2.50 or higher. Co-requisite: CSSE 308.		
CSSE 488	Software Engineering and Project Development II	3
Meets as required to continue software project work initiated in the fall quarter. Prerequisite: C (2.00) or better in CSSE 487 or C (2.00) or better in CSSE 486. (winter)		
CSSE 489	Software Engineering and Project Development III	3
Meets as required to complete software projects by end of spring quarter. Prerequisite: C (2.00) or better in CSSE 488. (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 486 and CSSE 487, projects are defined and requirement 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 (or CSSE 486 for students pursuing a B.A. degree), 488, and 489, must be taken as a continuous sequence and together, they fulfill the senior synthesis core requirement.		
CSSE 491-493	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

Carolyn Coffin, MPH, RDMS, RVT, RDCS, 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).

Program Admission

Individuals may apply for the major of diagnostic ultrasound as freshmen or transfer students from other colleges. Transfer applicants and change of major students will be considered according to admission requirements of the College of Science and Engineering and the department of diagnostic ultrasound. Some supplementary materials are required with transfer student applications. 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. All majors are required to meet with program faculty prior to progressing to the third year.

Departmental Requirements (*Policy 81-3*)

Students must earn a grade of C or higher and an average GPA of 2.50 or higher in PHYS 105, 106, MATH 131, BIOL 161/171, 200, 210 and a biology elective. Any biology, diagnostic ultrasound didactic, diagnostic ultrasound internship, ultrasound physics or pathophysiology course in which a grade lower than a C is earned must be repeated. No further ultrasound course may be taken until the student has earned an acceptable grade. Any course may be repeated only once.

The major requirements, as well as pathophysiology and PHYS 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 the department chair and advisors. The final year of the program is 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 degree of bachelor of science in diagnostic ultrasound degree, students must complete a minimum of 181 quarter credits with a cumulative and major/program grade point average of 2.80, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to 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 (DIUS 473,474, 487,488)		

II. Major Requirements

88 credits in diagnostic ultrasound, including:

DIUS 304	Pathophysiology - Medical Imaging	4
DIUS 330	Diagnostic Ultrasound I	4
DIUS 331	Diagnostic Ultrasound II	4
DIUS 332	Echocardiography	4
DIUS 333	Methods of Cardiac Evaluation	2
DIUS 334	Vascular Evaluation and Doppler	4
DIUS 340	Diagnostic Ultrasound Lab I	1
DIUS 341	Diagnostic Ultrasound Lab II	1
DIUS 342	Diagnostic Ultrasound Lab III	1
DIUS 344	Vascular Evaluation and Doppler Lab	1
DIUS 351	Instrumentation Lab	1
DIUS 355	Human Cross Section Anatomy	5
DIUS 370	Research and Professional Issues	4

DIUS 375	Ultrasound Instrumentation	4
DIUS 380	Advanced Ultrasound Topics	2
Senior Synthesis: Ultrasound Internship*		
DIUS 471	Clinical Experience in Ultrasound I	*10
DIUS 472	Clinical Experience in Ultrasound II	*8
DIUS 473	Clinical Experience in Ultrasound III	*8
DIUS 474	Clinical Experience in Ultrasound IV	*8
DIUS 487	Ultrasound Seminar I* (must be taken four times, 2 credits each)	*8
DIUS 488	Basic Science of Ultrasound* (must be taken twice, 2 credits each)	*4

*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 in addition to a good grade point average are required of internship candidates.

NOTE: 1. Students must provide physician verification of good health and immunizations prior to ultrasound-specific courses. 2. Courses marked with an asterisk (*) must be graded C (2.00) or higher.

III. Other Major Department Requirements

BIOL 161/171	Biology I: Molecular and Cellular Biology and Lab (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
Elective as determined by Diagnostic Ultrasound		5
PHYS 105	Mechanics	*5
PHYS 106	Waves, Sound, Electricity and Magnetism	*5
PHYS 350	Physics of Diagnostic Ultrasound	*3
Choose option a, b, or c		*5 or 10
a. MATH 131	Calculus for Life Sciences (preferred) (5)	
b. MATH 130	Elements of Calculus for Business (5)	
c. MATH 134	Calculus I (5)	
MATH 135	Calculus II (5)	

NOTE: 1. MATH 120 and MATH 121 are prerequisites to PHYS 105 and MATH 131. Contact the department regarding preferred course sequence. 2. A grade of C or higher is required.

Diagnostic Ultrasound Courses

- DIUS 304 Pathophysiology – Medical Imaging** 4
An conceptual approach to alterations in the structure and function that occur in human organ systems as a result of disease processes. The cellular, biological and/or genetic basis for these pathologies will be discussed. Prerequisites: BIOL 200 and 210. (fall)
- DIUS 330 Diagnostic Ultrasound I** 4
Pathophysiology of obstetrics and pelvic organ systems evaluated by ultrasound and their sonographic appearance. Integration of ultrasound physics, instrumentation, and principles. Prerequisites: DIUS 304, 331, 333, 334, 341, 344, 375; PHYS 350. Co-requisite: DIUS 340. (spring)
- DIUS 331 Diagnostic Ultrasound II** 4
Pathophysiology of abdominal organ systems evaluated by ultrasound and their sonographic and Doppler appearance. Introduction to hemodynamics of abdominal and vascular systems. Integration of ultrasound physics, instrumentation, and principles. Prerequisites: DIUS 304, 355, 370, 375; PHYS 350. Co-requisite: DIUS 341. (winter)
- DIUS 332 Echocardiography** 4
Anatomy, physiology, and pathology of the adult and pediatric heart. Integration of ultrasound physics, instrumentation, and principles. Prerequisites: DIUS 304, 331, 333, 334, 341, 344, 370, 375; PHYS 350; Co-requisite: DIUS 342. (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. Open to all qualified majors, and non-majors by instructor permission. Prerequisite: PHYS 350.
- DIUS 334 Vascular Evaluation and Doppler** 4
Introduction to hemodynamics and the application of Doppler ultrasound for the detection and evaluation of vascular anatomy, physiology, and pathology. Additional methods of evaluating vascular disease which complement Doppler data. Integration of ultrasound physics, instrumentation, and principles. Prerequisites: DIUS 304, 355, 370; PHYS 350. Co-requisite: DIUS 344. (winter)
- DIUS 340 Diagnostic Ultrasound Lab I** 1
Hands-on experience in scanning pelvic structures. Simulator experience scanning obstetrical model. Practice in modes of equipment operation and safety. Co-requisite: DIUS 330. (spring)
- DIUS 341 Diagnostic Ultrasound Lab II** 1
Hands-on experience in scanning abdominal organ systems. Practice in modes of equipment operation and safety. Co-requisite: DIUS 331. (winter)

- DIUS 342 Echocardiography Lab** 1
Hands-on experience in the evaluation of sonographic appearances of the heart with real-time 2-D imaging, Doppler, and M-mode echocardiography. Practice in modes of equipment operation and safety. Co-requisite: DIUS 332.
- DIUS 344 Vascular Evaluation and Doppler Lab**..... 1
Hands-on experience in scanning the peripheral vascular system and extracerebral circulation. Hands-on experience with physiologic testing equipment. Practice in modes of equipment operation and safety. Co-requisite: DIUS 334.
- DIUS 351 Instrumentation Lab**..... 1
A review of the ultrasound systems and the controls used to change imaging parameters. Students will learn how each control affects the ultrasound image and the reasons for making changes to the image; and will participate in simple scanning experiments to demonstrate image manipulation and the properties of high-frequency sound. Co-requisite: PHYS 350. (fall)
- 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 210; PHYS 106.
- DIUS 370 Research and Professional Issues**..... 4
Introduction to basic scientific writing, study design and critique, statistical analysis, and formulation and testing of hypotheses. 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. Open to all qualified majors, and non-majors by instructor permission.
- 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.
- DIUS 380 Advanced Ultrasound Topics** 2
This course will include extensive review of ultrasound images and patient exams in a variety of ultrasound specialty areas. Students will organize and present cases and discuss ultrasound findings, correlate lab results with patient exams and determine a differential diagnosis. This course will also include advanced lectures in ultrasound imaging and technologies. Prerequisites: PHYS 350; DIUS 304, 331, 333, 334, 355, 370, 375. Co-requisites: 330, 332.
- DIUS 391-393 Special Topics** 1 to 5
- DIUS 396 Directed Study**..... 1 to 5
- DIUS 471 Clinical Experience In Ultrasound I**..... 10
40 hours a week spent in an approved ultrasound clinical practice 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). Co-requisite: DIUS 487.

- DIUS 472 Clinical Experience in Ultrasound II..... 8**
40 hours a week in an approved ultrasound clinical practice. Prerequisite: DIUS 471 and compliance with policy (81-3). Co-requisite: DIUS 487.
- DIUS 473 Clinical Experience in Ultrasound III..... 8**
40 hours a week in an approved ultrasound clinical practice. Prerequisites: DIUS 471, 472 and compliance with policy (81-3). Co-requisite: DIUS 487.
- DIUS 474 Clinical Experience in Ultrasound IV 8**
40 hours a week in an approved ultrasound clinical practice. Prerequisites: DIUS 471, 472, 473 and compliance with policy (81-3). Co-requisite: 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 on campus one day every week. Students based outside Seattle area present projects by distance learning. Program requires this course be taken four times for a maximum of eight credits. Fulfills senior synthesis core requirement, together with DIUS 488. Co-requisite: 471, 472, 473 or 474. Prerequisite: Clinical internship assignment.
- DIUS 488 Basic Science of Ultrasound 2**
Project of professional interest assigned by faculty involving critical examination of current literature and research techniques. Program requires this course be taken twice for a maximum four credits. Fulfills senior synthesis requirement together with DIUS 487. Co-requisites: DIUS 472, 473. Prerequisite: successful completion of all DIUS didactic courses and compliance with policy (81-3).

Electrical and Computer 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 productive lifelong careers in any of the various sub-fields of electrical engineering. The Department of Electrical and Computer Engineering is teaching oriented and offers an undergraduate program that provides an integrated, contemporary perspective of the electrical engineering profession. The department's goals are contained within its mission statement and related objectives:

Mission Statement

Within the rich tradition of Jesuit education, it is the mission of the Department of Electrical and Computer Engineering to teach and prepare broadly-educated, socially-responsible, articulate, and skilled engineers for leadership in electrical engineering and related fields.

Program Objectives

The department strives to prepare graduates who have the following traits:

- **Technical Proficiency:** Basic knowledge in mathematics, physics, computing, and engineering theory and practice appropriate to the students' chosen areas of specialization.
- **Communication Skills:** Ability to communicate effectively and to critically evaluate meaning in written, oral, and graphical forms making use of modern information technology as appropriate.
- **Professional Development:** Appreciation of the broad spectrum of abilities needed in professional practice including skills in teamwork, leadership, creativity, and project management, and an understanding of professional ethics, workplace conventions, safety, and economics.
- **Personal Breadth:** Appreciation of non-technical aspects of engineering, including ethical considerations, concern for society and the environment, and multi-cultural perspectives, as well as a commitment to life-long learning and service to the professional and civic communities.

Degree Offered

Bachelor of Science in Electrical Engineering

Majors Offered

Electrical Engineering

Electrical Engineering with a 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, ECEGR, MATH, and PHYS courses and ENGL 110 with a combined grade point average of 2.50 or higher. Only courses graded C (2.00) or higher 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 ABET, formerly known as the Accreditation Board for Engineering and Technology.

Electrical Engineering Curricular Blocks

Courses taken to fulfill requirements toward the bachelor of science in electrical engineering degree are grouped into four interrelated curricular blocks. The foundations block includes courses in the natural sciences, mathematics, and computer science. The electrical or computer engineering fundamentals blocks include the 100, 200, and 300 level ECEGR and CSSE courses that are required in the two majors. The fundamentals block provides the basis for all advanced studies in the field. The advanced ECEGR 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 and Computer Engineering Student Handbook, available from the department, for additional information.

Bachelor of Science in Electrical Engineering Major 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 2.50 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	College Writing: Inquiry and Argument	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	Introduction to Literature	5
PHIL 220	Philosophy of the Human Person	5
Social Science I	.....	5
Choose one of the following two options:		5
Social Science II		
Fine Arts (one approved 5 credit course, see course descriptions)		
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 ECEGR 487, 488, and 489.		
Senior synthesis satisfied by ECEGR 487, 488, and 489.		

II. Major Requirements

A minimum of 70 credits of electrical and computer engineering, including:

ECEGR 100	Intro. to Electrical and Computer Engineering Design	2
ECEGR 101	Engineering Problem Solving With MATLAB	3
ECEGR 201	Digital Operations and Computation	4
ECEGR 210	Electrical Circuits I	5
ECEGR 211	Electrical Circuits II	4
ECEGR 227	Electrical Circuits Laboratory	2
ECEGR 312	Linear System Analysis	4
ECEGR 317	Signals and Systems Laboratory	2
ECEGR 320	Electronics I	4
ECEGR 321	Electronics II	4
ECEGR 328	Electronic Circuits Laboratory	2
ECEGR 487	Engineering Design I	3
ECEGR 488	Engineering Design II	4
ECEGR 489	Engineering Design III	3
ECEGR	Upper-division electives (five lecture courses)	20
ECEGR	Upper-division electives (two laboratories)	4

III. Other Major Department Requirements

A minimum of 60 credits including:

CSSE 151	Fundamentals of Computer Science I	5
MATH 134	Calculus I	5
MATH 135	Calculus II	5

MATH 136	Calculus 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 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics.....	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 2.50 or greater. Courses must include the following:

I. Core Curriculum Requirements

Students majoring in electrical engineering with a specialization in computer engineering must complete a minimum of 50 credits in the core curriculum, including:

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
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PHIL 220	Philosophy of the Human Person	5
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Social Science I	5
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Choose one of the following two options:

Social Science II

Fine Arts (one approved 5 credit course, see course descriptions)

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 by ECEGR 487, 488, and 489.

Senior synthesis satisfied by ECEGR 487, 488, and 489.

II. Major Requirements

78 to 81 credits, including:

ECEGR 100	Intro. to Electrical and Computer Engineering Design	2
ECEGR 101	Engineering Problem Solving With MATLAB	3
CSSE 151	Fundamentals of Computer Science I	5
CSSE 152	Fundamentals of Computer Science II	5
CSSE 250	Data Structures	5
CSSE 340	Operating Systems	5
ECEGR 201	Digital Operations and Computation	4
ECEGR 210	Electrical Circuits I	5
ECEGR 211	Electrical Circuits II	4
ECEGR 227	Electrical Circuits Laboratory	2
ECEGR 304	Microprocessor Design	4
ECEGR 320	Electronics I	4
ECEGR 321	Electronics II	4
ECEGR 328	Electronic Circuits Laboratory	2
ECEGR 487	Engineering Design I	3
ECEGR 488	Engineering Design II	4
ECEGR 489	Engineering Design III	3
ECEGR*	Electives	12 to 15
ECEGR*	Elective Lab	2

*Allowable electives consist of ECEGR and/or CSSE approved by the computer engineering program director. A list of these can be found in the Electrical and Computer Engineering Student Handbook. Electives must be selected to ensure that the student has the required 180 credits for graduation.

III. Other Program Requirements

A minimum of 50 credits including:

MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus 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 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics	5

Minor in Electrical Engineering

To earn a minor in electrical engineering, students must complete a minimum of thirty credits from among the following:

ECEGR 100	Intro. to Electrical and Computer Engineering Design	2
ECEGR 101	Engineering Problem Solving With MATLAB	3
ECEGR 201	Digital Operations and Computation.....	4
ECEGR 210	Electrical Circuits I.....	5
ECEGR 211	Electrical Circuits II.....	4
ECEGR 227	Electrical Circuits Laboratory.....	2
ECEGR 312	Linear System Analysis.....	4
ECEGR 317	Signals and Systems Laboratory.....	2
ECEGR 320	Electronics I	4
ECEGR 321	Electronics II	4
ECEGR 328	Electronic Circuits Laboratory.....	2

See policy for minors (84-1) for more information.

Electrical Engineering Courses

ECEGR 100 Intro. to Electrical and Computer Engineering Design..... 2

Introduction to electrical and computer engineering design and principles of technical communication through a hands-on robotics design project in which teamwork is emphasized. Design process, engineering tools, creative and analytical thinking, professionalism, and open-ended problems with interdisciplinary content. Grading based on the quality of deliverables and presentation of design results through written, oral, and graphical communication. Open to all university students. (fall, winter)

ECEGR 101 Engineering Problem Solving With MATLAB 3

Laboratory oriented course designed to introduce students to programming in MATLAB. The emphasis is on developing the confidence and skill necessary to generate readable, compact, and verifiably correct MATLAB programs for obtaining numerical solutions to a wide range of engineering problems and displaying the results with fully annotated graphics. Topics include introduction to the MATLAB environment, matrix manipulation and computation, MATLAB programming language, writing functions and scripts, and production of 2D and 3D graphical output. Co-requisite: MATH 134. (fall, winter)

ECEGR 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)

- ECEGR 210 Electrical Circuits I..... 5**
Fundamental concepts and units, Kirchhoff's laws, mesh and node analysis, equivalent circuits, linearity and superposition; first and second order circuits; natural and forced responses, initial conditions; sinusoidal analysis. Co-requisite: MATH 233. Prerequisite: PHYS 122. (winter, spring)
- ECEGR 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. Co-requisites: ECEGR 101 and MATH 234. Prerequisite: ECEGR 210. (fall, spring)
- ECEGR 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. Co-requisite: ECEGR 211. (fall, spring)
- ECEGR 296 Directed Study..... 1 to 5**
- ECEGR 304 Microprocessor Design..... 4**
Design of digital components and subsystems of a typical microprocessor. Assembly language programming, memory access, instruction processing, peripherals. Three lectures and one four-hour laboratory per week. Prerequisites: ECEGR 201, CSSE 151, and junior candidacy. (winter)
- ECEGR 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: ECEGR 211, MATH 234, and junior candidacy. (fall, winter)
- ECEGR 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 122. (winter)
- ECEGR 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. Co-requisite: ECEGR 312. Prerequisite: ECEGR 227. (fall, winter)
- ECEGR 320 Electronics I..... 4**
Diodes and bipolar and field effect transistor characteristics. Analysis and design of elementary electronic circuits including diode circuits, transistor amplifiers, and ideal operational amplifier circuits. Prerequisite: ECEGR 211 and junior candidacy. (fall, winter)

- ECEGR 321 Electronics II** 4
Differential and multistage transistor amplifiers. Classes of amplifiers. Frequency response of transistor circuits. Introduction to feedback. Internal circuitry of the operational amplifier. Operational amplifier circuits. Prerequisite: ECEGR 320. (winter, spring)
- ECEGR 328 Electronic Circuits Laboratory** 2
Continuation of ECEGR 227. Investigation of electronic circuits focusing on the design of a discrete component operational amplifier. Prerequisite: ECEGR 227. Co-requisite: ECEGR 321. (winter, spring)
- ECEGR 331 Distributed Systems** 4
Analysis of distributed systems; steady-state and transient analysis of loss-less lines, lossy lines; waveguides. Prerequisite: ECEGR 211, PHYS 123, and junior candidacy.
- ECEGR 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. Prerequisites: ECEGR 312 and MATH 244.
- ECEGR 391-393 Special Topics** 1 to 5
- ECEGR 396 Directed Study** 1 to 5
- ECEGR 401 VLSI: VHDL** 4
VHDL (Very high speed integrated circuit Hardware Description Language) as a digital system description tool. Digital design principles and their application to programmable logic devices. Use of VHDL as a design tool for PLD's is emphasized. Significant laboratory time outside of class is required. Prerequisite: ECEGR 201 and junior candidacy.
- ECEGR 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: ECEGR 312.
- ECEGR 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: ECEGR 201 and ECEGR 321.
- ECEGR 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: ECEGR 201 and ECEGR 304.
- ECEGR 406 Introduction to Digital Image Processing** 4
Introduction to fundamental principles and techniques for digital image processing including image analysis, feature extraction, segmentation, enhancement, restoration, and compression. Hands-on experience through MATLAB laboratory exercises and projects.

- ECEGR 407 Digital Signal Processing Laboratory** 2
Use of modern Digital Signal Processing (DSP) software development systems. Debugging and analysis of program operation on DSP integrated circuits. DSP IC architectures. Analysis of test data in time and frequency domains. Prerequisite: ECEGR 312. Co-requisite: ECEGR 403.
- ECEGR 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: ECEGR 312.
- ECEGR 421 Analog CMOS Electronics** 4
Analog CMOS circuits including current sources, voltage references, and basic amplifier stages used in integrated circuits, the internal circuitry of operational amplifiers, and analog-to-digital and digital-to-analog converters. Feedback. Fundamentals of integrated circuit layout and fabrication. Prerequisite: ECEGR 321.
- ECEGR 422 Electronics III** 4
A continuation of Electronics II covering topics selected from, but not limited to, feedback and stability, active filters, oscillators, data converters, signal generators, and digital electronics. Prerequisite: ECEGR 321.
- ECEGR 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: ECEGR 312 and ECEGR 320.
- ECEGR 428 Advanced Electronics Laboratory** 2
A special topics electronics laboratory focusing on practical applications in electrical and computer engineering. Design projects vary depending on the interests of the students and instructor. The iterative process of design, simulation, fabrication, and testing is emphasized. A one-hour lecture and one four-hour laboratory session per week. Prerequisites: ECEGR 321 and ECEGR 328. (May be retaken for credit with permission of the department chair.)
- ECEGR 432 Microwave Systems** 4
Propagation of electromagnetic waves and interaction with materials, guided waves, and passive and active devices, microstrip and integrated circuits. Prerequisite: ECEGR 312 and PHYS 330.
- ECEGR 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: ECEGR 312 and PHYS 330.
- ECEGR 437 Antennas Laboratory** 2
A laboratory covering the measurement and simulation of wire and aperture antenna radiation patterns. Co-requisite: PHYS 330.

- ECEGR 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: ECEGR 312.
- ECEGR 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: ECEGR 211 and junior candidacy.
- ECEGR 451 Power Systems 4**
 Analysis of power systems: symmetrical components, power system parameters, steady-state operation, symmetrical and non-symmetrical faults. Prerequisite: ECEGR 450.
- ECEGR 457 Electromechanical Energy Conversion Laboratory 2**
 A laboratory covering the principles and practice of electromechanical energy conversion devices. Co-requisite: ECEGR 450.
- ECEGR 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: ECEGR 201 and junior candidacy or permission.
- ECEGR 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: ECEGR 312 or PHYS 205; PHYS 330.
- ECEGR 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: ECEGR 312 and PHYS 123.
- ECEGR 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. Co-requisite: ECEGR 360.

ECEGR 487	Engineering Design I	3
ECEGR 488	Engineering Design II	4
ECEGR 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 course work 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 ECEGR 487, student teams are formed and industrially-sponsored design problems are assigned. Project proposals are written, critiqued, and presented. In ECEGR 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)

ECEGR 491-493	Special Topics.....	1 to 5
ECEGR 496	Independent Study	1 to 5
ECEGR 497	Directed Reading	1 to 5
ECEGR 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.

General Science

Jennifer Sorensen, 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. A preprofessional specialization is offered to assist in preparation for health professions. Other curricula can be customized for each student in consultation with the advisor. The environmental science degree offers an interdisciplinary approach to environmental issues. The prime objective of these degrees 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.

Degrees Offered

Bachelor of Science in General Science

Bachelor of Science in Environmental Science

Majors Offered

General Science

Environmental Science

Specialization Offered

Preprofessional

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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Fine Arts (one approved 5 credit course; see course descriptions)		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 satisfied within major	
Senior Synthesis (Fulfilled by ISSC 489 and 490)	3

II. Major Requirements

95 credits in mathematics, science, engineering, and computer science including:

*Primary concentration 30

*Secondary concentration..... 20

(May not include introductory mathematics and science courses)

Science Electives (see department)..... 0 to 15

Courses used to satisfy the following requirements may, in some cases, be applied toward the primary or secondary concentrations.

Ten 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

CSSE Elective 5

Interdisciplinary Science (300-400 level) 3 to 5

Choose two of the following five options: 10

a. BIOL 161 Biology I: Molecular and Cellular Biology

BIOL 171 Biology I Lab

b. BIOL 162 Biology II: Evolution and Ecology

BIOL 172 Biology II Lab

c. BIOL 163 Biology III: Physiology and Development

BIOL 173 Biology III Lab

d. BIOL 200 Anatomy and Physiology I

e. BIOL 210 Anatomy and Physiology II

Choose option a, b, c, or d..... 10

a. MATH 120 Precalculus: Algebra

MATH 131 Calculus for Life Sciences (note: MATH 121 is co-requisite)

b. MATH 118 College Algebra for Business

MATH 130 Elements of Calculus for Business

c. MATH 134 Calculus I (note: MATH 121 is co-requisite)

MATH 135 Calculus II

d. MATH 131 Calculus for Life Sciences (note: MATH 121 is co-requisite)

PSYC 201 Statistics for Non-Majors

Choose option a or b..... 10

a. PHYS 105 Mechanics

PHYS 106 Waves, Sound, Electricity and Magnetism

b. PHYS 121 Mechanics

PHYS 122 Electricity and Magnetism

NOTE: 1. At least 20 credits of the 95 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. PSYC 330 is allowed for upper-division science credit. The approved 200-level courses are BIOL 240, CEEGR 221/222, CHEM 231/241, CHEM 232/242, MATH 232, MATH 233, MATH 234, MEGR 210, MEGR 230, MEGR 281, PHYS 203, PHYS 204, and PHYS 205. ISSC 489/490 does not count toward major or upper-division science credits. 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 and 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-baccalaureate 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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Fine Arts (one approved 5 credit course; see course descriptions)		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
Theology and Religious Studies Phase III (300-399)		5
Interdisciplinary satisfied within major		
Senior Synthesis (fulfilled by ISSC 489 and 490)		3

II. Major Requirements

96 credits in mathematics, science, and computer science, including:

BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
BIOL 162	Biology II: Evolution and Ecology	4
BIOL 172	Biology II Lab	1

BIOL 163	Biology III: Physiology and Development.....	4
BIOL 173	Biology III Lab.....	1
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 Biology	
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
Interdisciplinary Science (300-400 level)		3 to 5
Choose series a or b.....		15
a. PHYS 105	Mechanics	
PHYS 106	Waves, Sound, Electricity and Magnetism	
PHYS 107	Thermodynamics, Optics, and Modern Physics	
b. PHYS 121	Mechanics	
PHYS 122	Electricity and Magnetism	
PHYS 123	Waves and Optics	
Choose option a, b, c, or d.....		10
a. MATH 118	College Algebra for Business	
MATH 130	Elements of Calculus for Business	
b. MATH 120	Precalculus: Algebra	
MATH 131	Calculus for Life Sciences (MATH 121 is co-requisite)	
c. MATH 131	Calculus for Life Sciences (MATH 121 is co-requisite)	
PSYC 201	Statistics for Non-Majors	
d. MATH 134	Calculus I (MATH 121 is co-requisite)	
MATH 135	Calculus II	

NOTE: 1. CHEM 454, CHEM 455, and CHEM 456 are strongly recommended as electives. 2. Students interested in preparing for professions such as chiropractic medicine, podiatry, and physical therapy should consult with an advisor to determine appropriate courses. 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 and 200-level science and mathematics courses that apply to the major.

Bachelor of Science in Environmental Science

In order to earn the bachelor of science in environmental science degree, students must complete a minimum of 180 credits with a cumulative and major/department grade point average of 2.00, including:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Fine Arts (one approved 5 credit course; see course descriptions)		5
PHIL 220	Philosophy of the Human Person	5
Social Science I		5
Social Science II (ECON 272 recommended)		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 (Fulfilled by ISSC 489 and 490)		3

II. Major Requirements

96 credits in science, engineering and mathematics including:

MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 244	Probability and Statistics	5
BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
BIOL 162	Biology II: Evolution and Ecology	4
BIOL 172	Biology II Lab	1
BIOL 163	Biology III: Physiology and Development	4
BIOL 173	Biology III Lab	1
BIOL 470	General Ecology	5
CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry I Lab	1
CHEM 122	General Chemistry II	4
CHEM 132	General Chemistry II Lab	1
CHEM 123	General Chemistry III	4
CHEM 133	General Chemistry III Lab	1
CHEM 231	Fundamental Organic Chemistry I	4
CHEM 241	Fundamental Organic Chemistry I Lab	2
CHEM 232	Fundamental Organic Chemistry II	4

CHEM 242	Fundamental Organic Chemistry II Lab.....	2
PHYS 105	Mechanics and Sound	5
PHYS 106	Electricity, Magnetism, and Thermodynamics	5
CEEGR 341	Biological Principles for Environmental Engineers.....	4
CEEGR 342	Environmental Engineering Chemistry	4
CEEGR 343	Air Pollution Engineering.....	4
CEEGR 351	Engineering Geology	4
CEEGR 473	Principles of Environmental Engineering	5
CEEGR 476	Environmental Law and Impact Studies	3

III. Other Major Department Requirements

20 credits in science, environmental, and engineering electives from the following:
(Additional prerequisites may be necessary for some courses.) 20

CHEM 454	Biochemistry I (3)
CHEM 319	Quantitative Analysis (5)
CEEGR 105	Civil Engineering Graphics and Communication (3)
CEEGR 311	Engineering Measurements (4)
CEEGR 402	Engineering Economy (3)
CEEGR 474	Water Supply and Wastewater Engineering (5)
CEEGR 475	Hazardous Waste Engineering (5)
MEGR 105	Engineering Graphics and Design (3)
BIOL 235	Invertebrate Zoology (5)
BIOL 240	Genetics (5)
BIOL 252	Taxonomy of Flowering Plants (5)
BIOL 275	Marine Biology (5)
BIOL 300	Microbiology (5)
BIOL 385	Plant Physiology (5)

NOTE: Credit for CEEGR 105 and MEGR 105 cannot both be applied to the major.

No more than 5 credits of elective from the following environmental classes:

PLSC 300	Environmental Politics
ECON 468	Natural Resources and Environmental Economics
HIST 351	Environmental History
PHIL 378	Environmental Philosophy
THRS 324	Religion and Ecology
ISSC 482	Global Climate Change

Note about minors: A minimum of 30 credits in biology or environmental engineering will constitute a minor in that area, 35 credits for chemistry. Only one minor can be earned for each degree. A biology minor would require 10 credits of biology from the elective list. A minor in chemistry would require CHEM 319 and additional chemistry credits to total 35. A minor in environmental engineering would require 6 civil engineering credits from the elective list.

Interdisciplinary Science Courses

- ISSC 100 Introduction to Environmental Science 2**
Investigation of some significant topics in environmental science at an introductory level and research of current issues in the literature. Introduction to environmental science career opportunities through hands-on demonstrations, lectures, and site visits with professionals in the field. Open to all university students.
- 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 field trips. (fall, winter, spring) Core lab science.
- ISSC 191-193 Special Topics 1 to 5**
- ISSC 201 Digital Operations and Computation 5**
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. Core lab science. Cross-listed with ECEGR 201. (fall, winter)
- 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. Core lab science. Prerequisite: Core math. (winter or spring)
- ISSC 291-293 Special Topics 1 to 5**
- ISSC 296 Directed Study 1 to 5**
- ISSC 480 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. Interdisciplinary core option. Prerequisites: junior standing or higher, PHIL 220, HIST 120 or 121.
- 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. Prerequisite: Phase II of core. Interdisciplinary core option.

ISSC 482	Global Climate Change	5
The science of global climate change and its effects on the environment, society and political decisions. Consideration of the main elements of the climate, measurement and consequences of change, evidence for past change and predictive tools for future change. Critical evaluation of current scientific literature, small group discussion and presentation. Prerequisites: Core lab science, junior standing. Interdisciplinary core option.		
ISSC 483	Interdisciplinary Core Course	3 to 5
ISSC 489	Senior Synthesis	2
Initiation of an independent literature or laboratory research project. Searching, reading, and synthesizing scientific literature. Consideration of relationship between major, Core, and professional goals. Development of student portfolio. Oral presentation and written report. Along with ISSC 490, part of the senior synthesis requirement for general science and environmental science majors. Prerequisite: general science or environmental science major. (winter)		
ISSC 490	Senior Synthesis Seminar	1
Continuation of the project developed in ISSC 489, including final oral and written presentations of the research. Along with ISSC 489, part of the senior synthesis requirement for general science and environmental science majors. Prerequisite: ISSC 489. (spring)		
ISSC 491-493	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 bachelor of arts degree includes a choice of a specialization in humanities for teaching. The third program, 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

Majors Offered

Mathematics

Mathematics, with specialization in Applied Mathematics

Mathematics, with specialization in Humanities for Teaching

Mathematics, with 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 2.00. This degree is particularly appropriate for students who intend to teach mathematics at the K-12 level. The bachelor of arts degree includes either the standard core option with electives or the specialization in humanities for teaching. Either option can prepare students to enter teacher certification and master degree programs in education. The program leading to the bachelor of arts degree does not confer a teaching credential, but is preparation for someone who intends to enter a master's degree in teaching program. The specialization in humanities for teaching option is for entering freshmen only. Students must choose one of the following two options:

Bachelor of Arts

Major in Mathematics

Standard Core Option

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Lab Science (fulfilled in major)		
Fine Arts (one approved 5 credit course; see course descriptions)		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 488, 489, 490		

II. Major Requirements

50 credits of mathematics, including:

MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 310	Introduction to Advanced Mathematics	5
MATH 488	Senior Synthesis I	2
MATH 489	Senior Synthesis II	2
MATH 490	Senior Synthesis III	1
MATH	Electives (300 or above)	10

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

Electives 18

Computer science, economics, psychology, and/or natural science approved by advisor, including at least one core lab science and one computer application or programming course.

NOTE: A maximum total of 5 credits of Directed Research or Undergraduate Research may be used to satisfy the math elective requirement.

Bachelor of Arts

Major in Mathematics

Specialization in Humanities for Teaching

In order to earn the bachelor of arts degree with a major in mathematics and specialization in humanities for teaching, students must complete a minimum of 180 credits, with a cumulative grade point average of 2.50, and major/department grade point average of 2.00, including the following:

I. Core Curriculum Requirements

HUMT 150	Composition: Language and Thought	5
HUMT 151	Composition: Language and the Arts	5
HUMT 152	Logic, Ethics and Discernment	5
HUMT 161	Humanities: Introduction to Tutoring	2
HUMT 162	Humanities: Introduction to Tutoring	1
HUMT 163	Humanities: Introduction to Tutoring	1
HUMT 171	Proseminar: Humanistic Foundations of Education	5
HUMT 180	Socio-Cultural Transformations I.....	5
HUMT 181	Socio-Cultural Transformations II	5
HUMT 182	Socio-Cultural Transformations III	5
HUMT 273	Seminar on Secondary Education	5
HUMT 274	Supervised Internship in Secondary Education	5
HUMT 301	Perspectives on the Person I	5
HUMT 302	Perspectives on the Person II.....	5
HUMT 371	Education and the Polity.....	5
HUMT 372	Leadership and Teaching.....	5
HUMT 380	Cultural Interface.....	5
HUMT 400	Seminar on Contemporary Problems.....	5
HUMT 471	Jesuit Education.....	5
HUMT 472	Jesuit Education Practicum	5
CISS 120	Poverty in America.....	5

Core Lab Science (fulfilled in major)

II. Major Requirements

50 credits of mathematics, including:

MATH 134	Calculus I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra.....	3
MATH 234	Differential Equations.....	4
MATH 244	Probability and Statistics for the Sciences and Engineering.....	5
MATH 310	Introduction to Advanced Mathematics	5
MATH 321	Euclidean and Modern Geometries	5
MATH 488	Senior Synthesis I	2
MATH 489	Senior Synthesis II	2
MATH 490	Senior Synthesis III	1

Choose one of the following two courses:..... 5

MATH 411 Introduction to Abstract Algebra I

MATH 431 Introduction to Real Analysis I

III. Other Major Department Requirements

Electives 18

Computer science, economics, psychology, and/or natural science approved by advisor, including at least one core lab science and one computer application or programming course

NOTE: For a detailed description of this degree, see the introductory pages for the College of Science and Engineering.

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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature.....	5
Lab Science (fulfilled in major)		
Fine Arts (one approved 5 credit course; see course descriptions).....		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 488, 489, 490	

II. Major Requirements

60 credits of mathematics, including:

MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 310	Introduction to Advanced Mathematics	5
MATH 488	Senior Synthesis I	2
MATH 489	Senior Synthesis II	2
MATH 490	Senior Synthesis III	1
MATH	Electives (300 or above)	10

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

Electives 28

Computer science, engineering, natural science, and/or social science approved by advisor, including at least one core lab science and one computer application or programming course.

NOTE: Under special circumstances, with approval from the department chair, MATH 244 may be substituted for MATH 351. A maximum total of 5 credits of Directed Research or Undergraduate Research may be used to satisfy the math elective requirement.

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 is appropriate for any student planning to pursue graduate studies in mathematics.

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Lab Science (fulfilled in major)		
Fine Arts (one approved 5 credit course; see course descriptions)		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 488, 489, 490		

II. Major Requirements

70 to 72 credits in mathematics, including:

MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra	3
MATH 234	Differential Equations	4
MATH 310	Introduction to Advanced Mathematics	5
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 488	Senior Synthesis I	2
MATH 489	Senior Synthesis II	2

MATH 490	Senior Synthesis III	1
MATH 499	Undergraduate Research*	0 to 2
MATH	Electives (numbered 222 or above)	10
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

Electives	18
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Computer science, economics and/or natural science approved by advisor, including at least one core lab science and one computer application or programming course.

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. *The MATH 499 requirement will be waived for a student who completes a National Science Foundation Research Experience for Undergraduates, senior design project, or approved research project in another department. 3. A maximum total of 5 credits of Directed Research or Undergraduate Research may be used to satisfy the math elective requirement.

Applied Mathematics Specialization

This specialization is appropriate for students planning to pursue a career in industry or to pursue graduate studies in applied mathematics.

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature	5
Lab Science	(fulfilled in major)	
Fine Arts (one approved 5 credit course; see course descriptions)		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 488, 489, 490		

II. Major Requirements

70 to 72 credits in mathematics, including:

MATH 134	Calculus I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra.....	3
MATH 234	Differential Equations.....	4
MATH 310	Introduction to Advanced Mathematics	5
MATH 361	Applied Mathematics I.....	5
MATH 371	Introduction to Numerical Methods	5
MATH 461	Applied Mathematics II.....	5
MATH 488	Senior Synthesis I	2
MATH 489	Senior Synthesis II	2
MATH 490	Senior Synthesis III	1
MATH 499	Undergraduate Research*	0 to 2
MATH	Elective (222 or above).....	5

Choose one of the following three courses:..... 5

MATH 244	Fundamentals of Probability and Statistics
MATH 331	Introduction to Complex Variables
MATH 351	Probability

Choose two of the following four 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

III. Other Major Department Requirements

PHYS 121	Mechanics	5
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Electives	13
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Computer science, economics, and/or natural science approved by advisor, including a computer application or programming course.

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. *The MATH 499 requirement will be waived for a student who completes a National Science Foundation Research Experience for Undergraduates, senior design project, or approved research project in another department. 3. A maximum total of 5 credits of Directed Research or Undergraduate Research may be used to satisfy the math elective requirement.

Minor in Mathematics

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

MATH 134	Calculus I	5
MATH 135	Calculus II	5
MATH 136	Calculus III	5
Approved mathematics courses (222 or higher)		15

See policy for minors (84-1) for more information.

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.

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. A student who has received a 2.00 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 2.00 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	Mathematical Reasoning and Its Applications	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. Credit not granted to a student who has previously received credit for MATH 118 or a higher numbered mathematics course. Core mathematics option. Prerequisite: one year each of high school algebra and geometry. (fall, winter, spring)		

- 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. Core mathematics option. Prerequisite: university mathematics entrance requirements or satisfactory score on the Mathematics Placement Exam. (fall, winter, spring)
- MATH 118 College Algebra for Business**..... 5
 Functions, graphing; linear, quadratic, exponential, logarithmic functions; systems of linear equations; inequalities; linear programming; applications to business. Graphing calculator required. Credit not granted for both MATH 118 and MATH 120. Core mathematics option. Prerequisite: a grade of C- or better in MATH 110 or satisfactory score on SAT or ACT or Mathematics Placement Exam. (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. Credit not granted for both MATH 118 and 120. Core mathematics option. Prerequisite: a grade of C- or better in MATH 110, or a satisfactory score on SAT or ACT or the Mathematics Placement Exam. (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 SAT or ACT or the Mathematics Placement Exam. (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. Core mathematics option. Prerequisite: a grade of C- or better in MATH 118 or MATH 120, or satisfactory score on SAT or ACT or 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. Core mathematics option. Co-requisite: MATH 121, unless exempted by qualifying examination. Prerequisite: a grade of C- or better in MATH 118 or MATH 120 or satisfactory score on SAT or ACT or the Mathematics Placement Exam. (winter, spring)
- MATH 134 Calculus I** 5
 Limits and derivatives of rational, exponential, and trigonometric functions; applications of limits and derivatives. Computer laboratory component. Graphing calculator required. Core mathematics option. Co-requisite: MATH 121, unless exempted by qualifying examination. Prerequisite: a grade of C- or better in MATH 120, or satisfactory score on SAT or ACT or the Mathematics Placement Exam. (fall, winter, spring)

- MATH 135 Calculus 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 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 of even years)
- MATH 222 Discrete Structures** 5
Introduction to methods of proof, based on logic; set theory, quantifiers, mathematical induction, functions; equivalence relations and partitions; algebraic structures, including Boolean algebras; combinatorics; graph theory and other applications to computer science used as context for proof. Prerequisites: a grade of C- or better in MATH 135 or instructor permission; 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. Co-requisite or prerequisite: MATH 232. Prerequisite: a grade of C- or better in 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. Cannot apply both MATH 244 and MATH 351 toward a mathematics major. Prerequisite: a grade of C- or better in MATH 135 or instructor permission. (winter, spring)
- MATH 291-293 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: a grade of C or better in MATH 136. (spring)

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: a grade of C or better in MATH 135. (spring 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: a grade of C or better in MATH 234. (fall of even years)		
MATH 351	Probability	5
Basic concepts and theorems in probability theory; the binomial, Poisson, normal, and other fundamental probability distributions; moments; limit theorems. Cannot apply both MATH 244 and MATH 351 toward a mathematics major. Prerequisite: a grade of C or better in MATH 232. (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: PHYS 121 and a grade of C or better in MATH 234. (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: a grade of C or better in MATH 233; proficiency in a programming language. (winter of odd years)		
MATH 391-393	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: for MATH 411, instructor permission granted on first day of class; for MATH 412, a grade of C or better in MATH 411. (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: for MATH 431, instructor permission granted on first day of class; for MATH 432, a grade of C or better in MATH 431. (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. Computer laboratory component. Prerequisite: a grade of C or better in MATH 361. (spring of even years)		
MATH 480-483	Interdisciplinary Core Course	3 to 5
Title and content change each term.		
MATH 488	Senior Synthesis I	2
Exploration of mathematical problems and applications. Each student will choose a topic to pursue. Library research. Development of student portfolio. Investigation of relationship between major and Core. Oral and written presentations. Required for all mathematics majors. Prerequisite: permission of instructor granted on first day of class. (fall)		
MATH 489	Senior Synthesis II	2
Continued development of synthesis topic and portfolio. Academic self-assessment. Additional mathematical topics including the history of mathematics. Required for all mathematics majors. Prerequisite: MATH 488. (winter)		
MATH 490	Senior Synthesis III	1
Presentation of the Senior Synthesis project, including both an oral and written presentation. Required for all mathematics majors. The sequence MATH 488, 489, 490 satisfies the core Senior Synthesis requirement. Prerequisite: MATH 489. (spring)		
MATH 491-493	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
MATH 499	Undergraduate Research	1 to 5
Mathematical investigation of a research problem in collaboration with a faculty advisor culminating in an oral or written presentation. Prerequisite: permission of faculty advisor and of chair.		

Mechanical Engineering

Greg S. Mason, PhD, PE, Chair

Objectives

Mechanical Engineering is among the broadest and most versatile of the engineering professions. Mechanical engineering encompasses many diverse activities and fields of interest, including design for environment, machine design, solid mechanics, materials, environmentally conscious energy systems, fluid mechanics, heat transfer, thermodynamics, combustion, control systems, manufacturing, or a combination of these fields as is often the case in the development of complex projects. Mechanical engineers can pursue careers in design, manufacturing, research and development, sales, management, and consulting.

The mission of the Department of Mechanical Engineering is to provide educational opportunities for students seeking to enter the mechanical engineering profession, so that they can achieve competence in the field while recognizing their social responsibilities. The program provides a strong foundation in the areas of mathematics, basic sciences, engineering theory and practice, and the humanities and social sciences. It encourages further self development and life-long intellectual achievement. The program seeks to build student skills in written and oral communication, socially, economically and environmentally responsible decision making, and professionalism.

The following program objectives have been designed to support both the departmental and university missions:

- **Technical Proficiency:** Ability to apply knowledge of mathematics, physics and the principles of engineering appropriate to the students' chosen areas of specialization, to the solution of contemporary problems in mechanical engineering.
- **Communications Skills:** Ability to communicate effectively in written, graphical, and oral formats.
- **Professional Skills:** Mastery of the broad spectrum of abilities needed in professional practice including skills in teamwork, leadership, creativity and project management, and an understanding of professional ethics, business practices, safety, and economics.
- **Personal Breadth:** Appreciation of the non-technical aspects of engineering, including ethical considerations, concern for society and the environment, and multi-cultural perspectives, as well as a commitment to life-long learning and service to the professional and civic communities.

Degree Offered

Bachelor of Science in Mechanical Engineering

Major Offered

Mechanical Engineering

Departmental Requirements

In addition to the prerequisites, departmental candidacy is required for entry into 300- and 400-level courses. Candidacy is achieved by successfully completing all required 100 and 200 level CEEGR, CHEM, MEGR, MATH, and PHYS courses with a combined grade point average of at least 2.50, and completing ENGL 110. Only courses graded C (2.00) or better may be transferred to offset degree requirements. Both the cumulative grade point average and the College of Science and Engineering grade point average must be at least 2.50 for graduation. Before completing the design sequence (MEGR 487/488/489) students must take a comprehensive exam (for details, refer to the Mechanical Engineering Student Handbook). Taking the Fundamentals of Engineering (FE) examination is required for the degree. This degree is accredited by the Engineering Accreditation Commission of ABET, formerly known as the Accreditation Board for Engineering and Technology.

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 2.50 grade point average is required, in addition to a science and engineering grade point average of 2.50, including the following:

I. Core Curriculum Requirements

45 credits in the core curriculum, including:

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to 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 MEGR 487, 488, 489.		

II. Major Program Requirements

74 credits in mechanical engineering, including:

MEGR 105	Engineering Graphics and Design.....	3
MEGR 106	Machine Shop	1
MEGR 181	Innovative Design	2
MEGR 210	Statics	4
MEGR 230	Dynamics.....	4
MEGR 281	Engineering Methods.....	4
MEGR 304	Data Acquisition and Instrumentation.....	4
MEGR 321	Thermodynamics	5
MEGR 324	Heat Transfer	5
MEGR 350	Materials Science.....	5
MEGR 371	Machine Elements.....	5
MEGR 435	Dynamic Systems	5
MEGR 438	Control Systems	4
MEGR 487	Engineering Design I.....	3
MEGR 488	Engineering Design II.....	4
MEGR 489	Engineering Design III.....	3
Engineering Electives (approved by department).....		9
Choose one of the following two courses:		4
MEGR 322	Thermodynamics II	
MEGR 372	Machine Elements II	

III. Other Major Department Requirements

61 credits in math, science and engineering, including:

CEEGR 221	Mechanics of Materials I.....	4
CEEGR 331	Fluid Mechanics	4
CEEGR 402	Engineering Economy	3
CHEM 121	General Chemistry I	4
CHEM 131	General Chemistry Lab I	1
ECEGR 315	Elements of Electrical Engineering	5
MATH 134	Calculus I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra.....	3
MATH 234	Differential Equations.....	4
PHYS 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics.....	5

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.

Mechanical Engineering Courses

- MEGR 100 Introduction to Mechanical Engineering** 1
 An overview of mechanical engineering. Course includes seminars by practicing mechanical engineers who discuss day-to-day engineering and the latest advances in the industry. Typical industries represented include: aerospace, transportation, HVAC, power generation, manufacturing, medical equipment, and sports equipment. Graded CR/F. One seminar per week. (spring)
- MEGR 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)
- MEGR 106 Machine Shop** 1
 Manufacturing processes including casting, welding, forging, plastics forming and metal cutting. Lab includes industry tours and hands-on machine shop projects focusing on fundamental theory and operation of precision measuring instruments, hand tools, metal lathes and CNC mills. Pre or co-requisite: MEGR 105. Prerequisite: CEEGR 221. (fall, winter, spring)
- MEGR 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 70 minute sessions per week. Laboratory. Prerequisite: freshman or sophomore standing. (fall, winter)
- MEGR 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 121. (fall, winter)
- MEGR 230 Dynamics** 4
 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. Four lectures per week. Prerequisites: MEGR 210. (winter, spring)
- MEGR 281 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). Four lectures per week. Co-requisites: MEGR 230, MATH 233. (fall, spring)
- MEGR 291-293 Special Topics** 1 to 5
- MEGR 296 Directed Study** 1 to 5

MEGR 304	Data Acquisition and Instrumentation	4
Introduction to computer based data acquisition, including D to A and A to D conversion, real time operating systems, digital filtering, sensor selection and sensor interface design. Three lectures, one laboratory per week and a final design project. Pre or co-requisite: CEEGR 315. Prerequisite: MEGR 281. (spring)		
MEGR 321	Thermodynamics	5
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, air-conditioning, compressible gas flow. Four lectures and one laboratory per week. (fall)		
MEGR 322	Thermodynamics II	4
Continuation of MEGR 321. Thermodynamics applied to ideal and real cycles, internal and external combustion engines, fans, blowers, compressors, nozzles, refrigeration, air-conditioning. Second-law analysis. Design problem. Four lectures per week. Prerequisite: MEGR 321. (winter)		
MEGR 324	Heat Transfer	5
Heat transfer—conduction, convection and radiation. Conduction in one and two dimensions, steady state and transient. Forced and natural convection with phase change. Radiation between two or three black and gray bodies. Heat exchangers. Design problem. Four lectures and one laboratory per week. Prerequisite: MEGR 321. Pre- or co-requisite: CEEGR 331. (spring)		
MEGR 342	Manufacturing Processes	3
Overview of manufacturing processes including casting, forming, machining and welding; physics governing processes, the associated process parameters and their influences. Two lectures and one laboratory or field trip per week. Prerequisite: MEGR 350.		
MEGR 350	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 and one laboratory per week. (fall)		
MEGR 371	Machine Elements	5
Advanced strength of materials including combined loading, beams, columns, connection forces and stress concentrations. Introduction to statistics and reliability. Introduction to finite element analysis. Material failure including static failure theories, fracture mechanics and fatigue. Design problem. Four lectures and one laboratory per week. Prerequisite: CEEGR 221. (winter)		
MEGR 372	Machine Elements II	4
Continuation of MEGR 371. Fasteners, welds, springs, bearings, gears, shafts, lubrication, clutches and brakes. Design problem. Four lectures per week. Prerequisite: MEGR 371. (spring)		
MEGR 391-393	Special Topics	1 to 5
MEGR 396	Directed Study	1 to 5

- MEGR 404 Experimental Design 3**
An introduction to the application of statistics in engineering problems. Topics include point estimates, population inference using p-values and confidence intervals, type 1 and type 2 error estimates, and ANOVA analysis when applied to engineering and manufacturing problems. Applications of statistics include statistical process control, sample size selection and experiment design using a factorial design approach. Three lectures per week. Prerequisite: junior standing.
- MEGR 405 Introduction to Finite Elements..... 3**
Development of theory and concepts of finite element analysis. Applications in all areas of mechanical engineering, including mechanics of solids, heat transfer, fluid mechanics and design. Weekly computer exercises. Three lectures per week. Prerequisites: MEGR 371, MEGR 324, and senior standing.
- MEGR 422 Energy and Environment 3**
Overview and discussion of primary energy consumption and energy conservation techniques. Theory and design of environmentally conscious energy conversion and relevant pollution reduction technologies. Assessment of energy conversion technologies with life-cycle analysis. Design and research projects. Three lectures per week. Prerequisites: MEGR 321 and junior standing.
- MEGR 423 Introduction to Combustion 3**
An introduction to the topic of combustion. The areas of study include the thermodynamics of combustion, chemical kinetics and combustion reaction analysis, study of diffusion and premixed flames, combustion related to spark-ignited and diesel engines, and special topics of combustion including pollution reduction, instrumentation for combustion processes, and microscale combustion. Three lectures per week. Prerequisites: MEGR 321 and junior standing.
- MEGR 426 Heat/Ventilation/Refrigeration 3**
Psychometrics; space heating and cooling loads; air conditioning; fans and ducts; heat exchangers; solar systems; refrigeration. Three lectures per week. Prerequisites: MEGR 321, MEGR 324.
- MEGR 431 Vehicle Dynamics..... 3**
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. Three lectures per week. Prerequisite: MEGR 230.
- MEGR 432 Mechanical Vibrations 3**
Analysis of structural vibrations of mechanical systems. Modeling of lumped and distributed parameter systems. Topics include: single- and multi-degree of freedom systems, free and forced vibrations, periodic and non-periodic forcing functions, mass/stiffness matrices, Lagrange's equations, and modal analysis. Continuous systems (string, rod, and beam vibrations). Design considerations and experimental testing methods. Three lectures per week. Prerequisite: junior standing.

MEGR 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 laboratory per week. Prerequisite: ECEGR 315 and MEGR 281; Pre- or co-requisite: MEGR 324. (fall)		
MEGR 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: MEGR 435. (winter)		
MEGR 451	Mechanics of Composite Materials	3
Introduction, basic concepts, fabrication methods, stress and strain analysis of fiber-reinforced composite materials. Elastic behavior of unidirectional lamina, lamination theory, effects of temperature and moisture, stress and failure analysis of laminates, composite structural design, and experimental characterization. Three lectures per week. Prerequisite: junior standing.		
MEGR 471	Kinematics and Dynamics of Machinery.....	3
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. Three lectures per week. Prerequisite: MEGR 230.		
MEGR 487	Engineering Design I	3
MEGR 488	Engineering Design II	4
MEGR 489	Engineering Design III	3
Group design project focusing on the integrative aspects of engineering subject matter. The project focuses 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. Format consists of classroom lectures and individual design team meetings each week. The three courses must be taken as a continuous sequence. Fulfills the senior synthesis core requirement. Prerequisite: department permission. (487 fall; 488 winter; 489 spring)		
MEGR 491-493	Special Topics	1 to 5
MEGR 496	Independent Study	1 to 5
MEGR 497	Directed Reading.....	1 to 5
MEGR 498	Directed Research.....	1 to 5
MEGR 499	Undergraduate Research	1 to 5
Analytical, numerical, or laboratory investigation of a research problem in mechanical engineering under the supervision of a mechanical engineering department faculty member. Graded CR/F. Prerequisite: junior standing.		

Physics

David Boness, PhD, Chair

Objectives

The Physics Department offers two degree programs, the bachelor of science (BS) and the bachelor of arts (BA). There are two versions of the BA program: the bachelor of arts with a major in physics, and the bachelor of arts with a major in physics and with a specialization in humanities for teaching (BAHT program).

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 work emphasizing modern physics. The curriculum is designed to prepare students for advanced work in pure and applied physics in graduate school or in industry, but the degree is also excellent preparation for careers in engineering or computer programming, or for admission to medical, dental, law, or business school. Graduates with the BS degree in physics work in industry, federally funded national laboratories, academic institutions, or other places where a strong problem solving background is valued.

The bachelor of arts program is ideal for those who desire a solid background in physics but who also want the flexibility to pursue other interests. Students planning to go on to teach at the high school level can enter teacher certification and master degree programs in education regardless of which physics degree is earned, but the BAHT program is specially designed for physics majors seeking a career in high school teaching. Note that the BAHT program does not by itself give state teacher certification; further work is needed.

Degrees Offered

Bachelor of Arts

Bachelor of Science in Physics

Majors Offered

Physics

Physics with specialization in Humanities for Teaching

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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110 College Writing: Inquiry and Argument 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	Introduction to Literature.....	5
Fine Arts (one approved 5 credit course; see course descriptions).....		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

II. Major Requirements

45 credits in physics, including:

PHYS 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics.....	5
PHYS 204	Relativity.....	2
PHYS 205	Introduction to Quantum Physics	3
PHYS 206	Modern Physics Laboratory	3
PHYS 230	Computing Tools for Physical Science.....	3
PHYS 250	Mathematical Methods for Physics	4
PHYS 310	Classical Mechanics	5
PHYS 330	Electromagnetic Field Theory	5
PHYS	Electives (300 level or above).....	5

III. Other Major Department Requirements

MATH 134	Calculus I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra.....	3
MATH 234	Differential Equations.....	4
Related science electives (approved by department)		15

NOTE: No physics courses numbered 120 or below may be counted toward the major.

Bachelor of Arts

Major in Physics

Specialization in Humanities for Teaching

In order to earn the bachelor of arts degree with a major in physics and with a specialization in humanities for teaching, students must complete a minimum of 180 credits with a cumulative grade point average of 2.50, and major/department grade point average of 2.00, including the following:

I. Core Curriculum Requirements

HUMT 150	Composition: Language and Thought	5
HUMT 151	Composition: Language and the Arts	5
HUMT 152	Logic, Ethics, and Discernment	5
HUMT 161	Introduction to Tutoring	2
HUMT 161	Tutoring Practicum.....	1
HUMT 163	Tutoring Practicum.....	1
HUMT 171	Proseminar: Humanistic Foundations of Education	5
HUMT 180	Socio-Cultural Transformations I.....	5
HUMT 181	Socio-Cultural Transformations II	5
HUMT 182	Socio-Cultural Transformations III	5
HUMT 273	Seminar on Secondary Education	5
HUMT 274	Supervised Internship in Secondary Education	5
HUMT 301	Perspectives on the Person I.....	5
HUMT 302	Perspectives on the Person II.....	5
HUMT 371	Education and the Polity.....	5
HUMT 372	Leadership and Teaching.....	5
HUMT 380	Cultural Interface.....	5
HUMT 400	Seminar on Contemporary Problems.....	5
HUMT 471	Jesuit Education.....	5
HUMT 472	Jesuit Education Practicum	5
CISS 120	Poverty in America.....	5

II. Major Requirements

48 credits in physics, including:

PHYS 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics.....	5
PHYS 204	Relativity.....	2
PHYS 205	Introduction to Quantum Physics	3
PHYS 206	Modern Physics Laboratory	3
PHYS 230	Computing Tools for Physical Science.....	3
PHYS 250	Mathematical Methods for Physics	4
PHYS 310	Classical Mechanics	5
PHYS 330	Electromagnetic Field Theory	5
PHYS 487	Senior Synthesis.....	3
PHYS	Electives (300 level or above).....	5

III. Other Major Department Requirements

MATH 134	Calculus I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra.....	3
MATH 234	Differential Equations.....	4
CHEM 121	General Chemistry I.....	4
CHEM 131	General Chemistry Lab I	1
CHEM 260	Laboratory Safety	2
Related Science Electives (approved by department).....		8

NOTE: For a secondary endorsement in general science, 5 credits of earth science and 5 credits of BIOL 161/171 will satisfy science electives. For a detailed description of this degree see the introductory pages for the College of Science and Engineering. Students interested in teaching should contact the Master in Teaching program (206) 296-5759 or visit the website seattleu.edu/coe/mit.

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 2.00, including the following:

I. Core Curriculum Requirements

ENGL 110	College Writing: Inquiry and Argument	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	Introduction to Literature.....	5
Fine Arts (one approved 5 credit course; see course descriptions).....		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

II. Major Requirements

65 credits in physics, including:

PHYS 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics.....	5

PHYS 203	Thermodynamics	3
PHYS 204	Relativity.....	2
PHYS 205	Introduction to Quantum Physics	3
PHYS 206	Modern Physics Laboratory	3
PHYS 230	Computing Tools for Physical Science.....	3
PHYS 250	Mathematical Methods for Physics	4
PHYS 310	Classical Mechanics	5
PHYS 330	Electromagnetic Field Theory	5
PHYS 370	Advanced Physics Laboratory.....	4
PHYS 385	Quantum Mechanics	5
PHYS 410	Continuum Physics.....	5
PHYS	Electives (300 level or above).....	8

III. Other Major Department Requirements.....

MATH 134	Calculus I.....	5
MATH 135	Calculus II.....	5
MATH 136	Calculus III	5
MATH 232	Multivariable Calculus	3
MATH 233	Linear Algebra.....	3
MATH 234	Differential Equations.....	4
Related Science Electives (approved by department).....		5

NOTE: No physics courses numbered 120 or below 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 121	Mechanics	5
PHYS 122	Electricity and Magnetism	5
PHYS 123	Waves and Optics.....	5
PHYS 205	Introduction to Quantum Physics	3
PHYS	Electives (200-level and above).....	12

NOTE: No physics courses numbered 120 or below may be counted toward the minor.

See Policy for minors (84-1) for more information.

Physics Courses

NOTE: 1. PHYS 101, PHYS 102, PHYS 104, PHYS 105, PHYS 106, PHYS 107, PHYS 121, PHYS 122, and PHYS 123 combine lectures and discussion with laboratory sessions. Any of these satisfies the core Phase One laboratory science requirement. 2. Credit may be received for only one of the following series: PHYS 105/106/107 or PHYS 121/122/123.

- PHYS 100 From Quarks to the Cosmos 2**
 A non-mathematical introduction to some of the most interesting aspects of contemporary physics. Topics include the nature of space and time, the fundamental constituents of matter, and the evolution of the universe from the big bang to the present epoch of accelerated expansion. Evaluation in the course is based on class participation, essay exams, and a term paper. Grading is CR/F. There are no prerequisites. (fall)
- PHYS 101 Astronomy: The Solar System 5**
 An introduction to astronomy for non-science students that satisfies the Core laboratory science requirement. Topics considered include a description of the motions of celestial objects as seen from earth; explanation of the motions from the early Greeks through the moderns; a survey of the physical properties and origins of the solar system, including the latest findings of space probes. The course may include an astrobiology emphasis. Course includes laboratory component. Prerequisite: core mathematics or placement in MATH 120 or higher.
- PHYS 102 Astronomy: Stars, Galaxies, and Cosmology 5**
 An introduction to astronomy for non-science students that satisfies the Core laboratory science requirement. Topics include light and telescopes; the distance, motion, and brightness of stars; the birth and death of stars; black holes; normal and abnormal galaxies; the big bang, the expanding universe, curved spacetime, and the fate of the universe. Course includes laboratory component. Prerequisite: core mathematics or placement in MATH 120 or higher.
- PHYS 104 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; additional topics may include recent controversies in science, such as global warming, ozone depletion, or what caused the death of the dinosaurs. Course includes laboratory component. Prerequisite: core mathematics or placement in MATH 120 or higher.
- PHYS 105 Mechanics 5**
 A non-calculus survey of classical mechanics. Topics covered include kinematics in one and two dimensions; dynamics, Newton's laws and gravitation; work and energy; momentum, rotational motion, and equilibrium. Course includes laboratory component. Prerequisites: MATH 120, MATH 121, or equivalent.
- PHYS 106 Waves, Sound, Electricity and Magnetism 5**
 Continuation of the non-calculus survey of introductory physics. Topics covered include fluids; simple harmonic motion; mechanical waves and sound; electric charge, field, and potential; electric energy and capacitance; electric current and resistance; magnetic fields and electromagnetic induction. Course includes laboratory component. Prerequisite: PHYS 105. (winter)
- PHYS 107 Thermodynamics, Optics, and Modern Physics 5**
 Completion of the non-calculus survey of introductory physics. Topics treated include temperature and kinetic theory; heat and the laws of thermodynamics; ray and wave optics; introduction to the ideas of quantum mechanics; radioactivity and radiation. Course includes laboratory component. Prerequisite: PHYS 106. (spring)

- PHYS 121 Mechanics..... 5**
An introduction to calculus-based physics for students of science and engineering. Topics treated include vectors; kinematics; force and Newton's laws; work, energy, and power; conservation of momentum and collisions; rotational dynamics and rigid body motion; gravitation. Course includes laboratory component. Prerequisite or co-requisite: MATH 135. (winter, spring)
- PHYS 122 Electricity and Magnetism..... 5**
Continuation of calculus-based physics for students of science and engineering. Topics covered include electric charge, forces, field, flux; Gauss' law; electric potential; conductors, dielectrics, capacitance; current, resistance, and DC circuits; magnetic forces and fields; Ampere's law; Faraday's law and inductance; Maxwell's equations. Course includes laboratory component. Prerequisites: PHYS 121, MATH 135. (fall, spring)
- PHYS 123 Waves and Optics 5**
Completion of the calculus-based survey of physics for students of science and engineering. Topics covered include harmonic motion; mechanical, and electromagnetic waves; electromagnetic properties of materials; reflection, refraction, dispersion, interference, diffraction, and polarization of waves. Course includes laboratory component. Prerequisites: PHYS 122, MATH 136. (fall, winter)
- PHYS 203 Thermodynamics 3**
An introduction to thermodynamics for students of science and engineering. Topics treated include temperature, work, heat, and internal energy; reversible processes; entropy and its interpretations; thermodynamic equilibrium; the laws of thermodynamics; ideal gases; kinetic theory and distributions; heat engines and refrigerators; phase transitions; application to physical systems. Prerequisites: PHYS 122, MATH 136. (winter)
- PHYS 204 Relativity 2**
An introduction to special relativity for students of science and engineering. Topics covered include the Lorentz transformation and its consequences; relativistic kinematics; relativistic dynamics, collisions, and conservation laws. Prerequisite: PHYS 123. (spring)
- PHYS 205 Introduction to Quantum Physics 3**
An introduction to quantum mechanics for students of science and engineering. Topics covered include evidence for the quantization of light, matter, and energy; the wave nature of matter; the Bohr model of the atom; wave-particle duality; the uncertainty principle; the Schrödinger equation and its applications; the Pauli exclusion principle and the periodic table of the elements. Prerequisites: PHYS 123, MATH 232. (spring)
- PHYS 206 Modern Physics Laboratory..... 3**
A rigorous introduction to experimental physics through modern physics laboratory investigations. Emphasis is on experimental method, including experimental design, proper use of laboratory notebooks and record keeping, data acquisition, data analysis and interpretation, measurement statistics and uncertainty, quantitative support of conclusions, and presentation and dissemination of results. Physics topics for investigation emphasize 20th century physics. Prerequisite or co-requisite: PHYS 205. (spring)

- PHYS 230 Computing Tools for Physical Science 3**
 An introduction to scientific computer programming for students of science and engineering. Emphasis is on numerical and symbolic computation methods with applications in the physical sciences. Instruction in the use of programming languages or packages such as MATLAB, Fortran 95, and Mathematica are given at an elementary level. Elementary programming skills required for doing scientific computation, such as numerical evaluation and plots of functions, statistical analysis and plots of data, numerical computations and symbolic calculations are emphasized. Prerequisite: PHYS 122. (winter)
- PHYS 250 Mathematical Methods for Physics 4**
 A course to facilitate the understanding and use of mathematics in the physical sciences. Topics include applications of vector calculus; Fourier analysis; applications of differential equations; coordinate systems; special functions. Prerequisites: PHYS 123, MATH 234. (fall)
- PHYS 291-293 Special Topics 1 to 5**
- PHYS 296 Directed Study 1 to 5**
- PHYS 310 Classical Mechanics 5**
 Newtonian mechanics for students of physics. Topics include point-particle mechanics in 3-dimensions; oscillations; Newton's theory of gravity; central force motion; dynamics of systems of particles; Lagrangian and Hamiltonian dynamics; dynamics of rigid bodies. Prerequisites: PHYS 230 or equivalent, PHYS 250. (winter)
- PHYS 330 Electromagnetic Field Theory 5**
 The theory of electromagnetism using vector calculus for students of physics and electrical engineering. Topics covered include 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 123, MATH 234. (fall)
- PHYS 340 Nonlinear Dynamical Systems and Chaos 4**
 An introduction to nonlinear dynamical systems. Topics include 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 123, PHYS 230 or equivalent, MATH 234. (winter)
- PHYS 350 Physics of Diagnostic Ultrasound 3**
 An introduction to ultrasound physics for students in diagnostic ultrasound. Topics treated include 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, and ranging; hemodynamics; the Doppler effect; introduction to ultrasonic instrumentation. Prerequisites: PHYS 106 or equivalent; MATH 131 or 134; enrollment in the diagnostic ultrasound program or permission of the physics department. (fall)

- PHYS 362 Introduction to Astrophysics** 4
An introduction to the physics of stars and galaxies. Topics include observational properties of stars; equations of stellar structure; physics of stellar interiors; birth, evolution, and death of stars; globular clusters; galaxies. Prerequisites: PHYS 203, PHYS 230 or equivalent, PHYS 250.
- PHYS 363 Introduction to Geophysics** 4
An introduction to physics of the earth. Topics include earth formation; plate tectonics; geomagnetism; continuum mechanics; earthquakes and seismology; physical properties of the deep earth; high-pressure geophysics. Prerequisites: PHYS 203, PHYS 230 or equivalent, PHYS 250.
- PHYS 370 Advanced Physics Laboratory** 4
Experimental physics laboratory to introduce students to the work of a professional experimental physicist. Students will design and execute experiments in such areas as superconductivity, nuclear physics, spectrophotometry, and holography and will learn state-of-the-art computer-based data acquisition techniques using LabView. Students will present a talk in the style of a professional conference and prepare a paper in the style of a professional research journal. Prerequisites: PHYS 205, PHYS 206, MATH 234. (winter of alternate years)
- PHYS 385 Quantum Mechanics** 5
A mathematical treatment of quantum mechanics using complex vector spaces, operators, wave functions, and abstract Dirac notation. Topics treated include wave-particle duality, the state function, the Schrödinger equation, one-dimensional problems, the operator formalism, matrices, central forces, angular momentum, spin, identical particles. Prerequisites: PHYS 205, PHYS 310. (spring)
- PHYS 391-393 Special Topics** 1 to 5
- PHYS 396 Directed Study** 1 to 5
- PHYS 410 Continuum Physics** 5
A course in advanced classical physics, emphasizing continuous matter and fields. Topics may include these: normal modes of finite and continuous systems; Laplace's and Poisson's equations; the heat/diffusion equation; the wave equation; equations of continuity; and Euler's and the Navier-Stokes equation. Prerequisites: PHYS 310, PHYS 330. (fall)
- 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 330.

- PHYS 450 Atomic Physics..... 4**
 Introduction to modern atomic physics. Topics may include: single electron without spin in central potential, radiative transitions, spin and the fine structure of the hydrogen spectrum, two electron systems, independent electron approximation, shells, electronic configurations, spectroscopic notation, interaction with external fields, hyperfine structure, isotope shifts, optical and radiofrequency spectroscopy, atomic beam methods, measurement of atomic lifetimes and oscillator strengths, electronic and atomic collisions. Prerequisites: PHYS 330, PHYS 385.
- PHYS 470 Solid-State Physics 4**
 An introduction to the physics of solids for physics students. Topics covered include 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. Prerequisite: PHYS 385.
- PHYS 480-483 Interdisciplinary Core Courses..... 3 to 5**
 Title and content change each term these courses are offered.
- PHYS 481 Origins: Cosmology and Culture..... 5**
 A study of the origin and evolution of the universe and the cultural and historical influences that have shaped our understanding of the cosmos. Satisfies the core interdisciplinary requirement. Does not count for physics elective credit. Prerequisite: junior standing.
- PHYS 486 Particle and Nuclear Physics..... 5**
 An introduction to the physics of nuclei and elementary particles for physics students. Topics covered include an 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 385.
- 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 491-493 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 to 6**
 Literature search and laboratory or computer investigation of a research problem in physics under the supervision of a faculty member. Prerequisite: permission of department chair.

Premedical and Predental

Margaret L. Hudson, PhD, Advisor

If you are interested in careers in medicine, dentistry, veterinary medicine, optometry, physical therapy, pharmacy, 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 also to meet regularly with your academic advisor 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. The PreHealth Handbook, available online through the Seattle University website, should be helpful at all stages of your planning and exploration of careers in the health professions.

Most of Seattle University's premedical, predental, preveterinary, preoptometry, and other pre-health professions 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 typically require the following undergraduate science sequences: CHEM 121, 122, 123, 131, 132, 133, 335, 336, 337, 345, 346, 347; BIOL 161/171, 162/172, 163/173; PHYS 105, 106, 107 or PHYS 121, 122, 123. 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 and talk with Dr. Hudson to learn about specific requirements. Most professional schools require, as a part of the application process, nationally standardized exams that draw on your college science background and analytical skills. 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, optometry, and other health professions 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 required academic course work is challenging 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 the time you hope to enroll. Dr. Hudson and your academic advisor will be happy to assist you. The required standardized tests such as the Medical College Admissions Test (MCAT), Optometry Admission Test (OAT), Graduate Record Exam (GRE) and the Dental Admission Test (DAT) are administered individually on computer by appointment with a testing service. The health professions schools to which you are applying will ask you to provide to them 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. Interviews with the Committee are scheduled with Dr. Hudson and are held in May.

Post-baccalaureate Pre-professional Health Studies Certificate Program

Margaret Hudson, PhD, Advisor

Objectives

This program is focused on assisting individuals who have not already taken the science courses required for admission by health professions schools, and who may benefit by advice and assistance in preparation for a career in the health professions. Those interested in medicine, dentistry, veterinary medicine, physical therapy, optometry, and physician assisting have participated successfully in the post-baccalaureate program at Seattle University.

Admission

The post-baccalaureate premedical certificate program is open to applicants with at least a bachelor's degree from a regionally accredited program. Applicants will need to complete an application form and provide transcripts of all college level course work and degrees. Because our program is kept small, to gain admission, applicants must clearly communicate their intentions, motivation, and plans through the application process. Applications must be received by March 1 to be considered for entrance the following fall quarter. Applicants are expected to have a GPA of at least 3.00 in the last two years of their degree work plus any post-baccalaureate course work taken prior to enrollment at Seattle University or permission of the chief premedical/predental advisor.

Program

Students in the program are advised by the program director, take classes along with our undergraduate students, and interview with our Premedical/Predental Advisory Committee in preparation for their interviews at professional schools. Both individual faculty members and the Committee write letters of recommendation for post-baccalaureate students, to be sent to the professional schools of their choice. Post-baccalaureate students are also welcome to participate in the Seattle University PreHealth Club and so can take part in service activities, field trips, and a mock MCAT exam, as well as meetings with health care professionals, with other students in the process of applying to professional schools, and with admissions officers from health professions schools. The program advisor offers advice about career exploration, about individual professional schools, about strategy and practice for professional school interviews, and provides feedback on the personal statement and other essays for application to professional school.

Certificate of Post-baccalaureate Studies

Pre-professional Health Studies

In order to earn the certificate, a student must complete a minimum of 30 credits in the courses listed below at Seattle University with a minimum cumulative grade point average of 3.00.

Requirements

BIOL 161	Biology I: Molecular and Cellular Biology	4
BIOL 171	Biology I Lab	1
BIOL 162	Biology II: Evolution and Ecology	4
BIOL 172	Biology II Lab	1
BIOL 163	Biology III: Physiology and Development	4
BIOL 173	Biology III Lab	1
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 option a. or b. in consultation with an advisor and based on intended course of post-graduate studies: 12 to 16

a. 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)
b. 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)

Choose option a or b..... 15

a. PHYS 105	Mechanics
PHYS 106	Waves, Sound, Electricity and Magnetism
PHYS 107	Thermodynamics, Optics, and Modern Physics
b. PHYS 121	Mechanics
PHYS 122	Electricity and Magnetism
PHYS 123	Waves and Optics

Center for Service and Community Engagement

Kent Koth, Director

About the Center

The work of the Center for Service and Community Engagement revolves around fulfilling the mission of Seattle University: empowering leaders for a just and humane world. With the belief that successful leaders are those who serve others, the Center supports students engaged in service and justice activities.

Created through a presidential initiative in 2004, the Center for Service and Community Engagement is a dynamic outgrowth of Seattle University's Jesuit tradition and mission. The Center has two main goals: (1) to foster positive action and improvement within the campus and the wider community and (2) to develop reflective, creative, compassionate and just students. The Center works collaboratively with campus and community partners to implement programs in the following areas:

- Academic Service-Learning
- Community Partnerships
- Campus Collaboration
- Student Leadership

Service-Learning Courses

Academic service-learning is the connection of concepts in the classroom to service experiences in the community. Service-learning encourages you to begin or to continue service, in preparation for a lifetime of civic engagement and leadership. In addition, service-learning is an important learning tool. Through service, you have the opportunity to apply the concepts, theories and other material that you cover in class. The community becomes a text for the class, and is as critical to "read" as other textbooks.

Seattle University offers three types of service-learning courses:

- Placement-based
- Project-based

Refer to the Center for Service and Community Engagement website for more details:
seattleu.edu/csce/

Culture and Language Bridge Program

Eli Hinkel, PhD, 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 a background in 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 advisor. 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 vocabulary, grammar and reading (CLBR 080), reading and writing (CLBR 090), and academic speaking skills (CLBR 091) essential for success in their disciplines. Transfer and graduate students with TOEFL scores ranging from 190/520/68 to 210/547/78 (inclusive) are required to take the Academic Vocabulary and Grammar course (CLBR 080) before they can enroll in Advanced Academic Writing (CLBR 090). The course work for transfer and graduate students concentrates on American academic culture and 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 are not offered in the summer.

Admission Requirements

All non-native English speakers whose TOEFL (Test of English as a Foreign Language) score (or a MELAB/IELTS equivalent) is between 190/520/68 and 233/577/91 (inclusive) are required to take the Placement Essay Test upon their arrival at Seattle University. Results of the Placement Essay Test combined with proficiency scores may require that students be enrolled in the Culture and Language Bridge Program to ensure their academic success at Seattle University.

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 CLB 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 CLB 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 237/580/92 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.

Program Requirements

In the Culture and Language Bridge Program, students' 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 the CLB section of English 101 follows the university grading system. All other courses required in the CLB program are graded on a pass/fail basis, although a letter grade will appear on the student's permanent record. A grade of C or above is considered to be passing. Grades below C are considered to be failing and demand a repetition of the course. Successful completion of English 101 allows undergraduate students to earn five elective credits toward their graduation. All other required CLB courses, however, are not applicable toward graduation requirements.

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 three times 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.

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.

CLBR 088 Classroom Communication 2

The class meets two 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.

Courses for Transfer and Graduate Students

CLBR 080 Academic Vocabulary and Grammar 5

(Required of students with TOEFL scores ranging from 190/520/68 to 210/547/78, inclusive)

The class meets five times a week and concentrates on essential academic vocabulary and grammar features fundamental in formal academic reading and writing in English. The course specifically focuses on essential academic lexis and syntax in English academic prose that can enhance reading fluency and comprehension, as well as writing clarity and cohesion.

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 essay structure). Paraphrasing and vocabulary development represent ongoing supplementary course goals.

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.

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 a C grade.

Education Abroad

*Robin Craggs, Director
Xavier Global House, Room 181
Phone: (206) 296-2226
Website: seattleu.edu/studyabroad*

Objectives

The Seattle University Education Abroad Office seeks to facilitate intellectual and intercultural experiences that contribute to students' lives of leadership and service in the Jesuit tradition.

While participation in any particular study abroad program is neither a requirement nor an entitlement of a Seattle University degree, several choices of major or scholarship programs require some kind of international experience.

For a list of eligible programs and current policy governing study abroad participation during any quarter at Seattle University, please consult with the Education Abroad Office or website: www.seattleu.edu/studyabroad. Applicants to SU sponsored, SU approved and non-SU study abroad programs must seek university approval and file required paperwork with the Education Abroad Office. Eligibility generally includes good academic standing, a clear conduct record and permission of the major advisor. Several programs have additional eligibility requirements. The university will not approve participation in study abroad in countries for which the United States Department of State has issued a Travel Warning.

In addition to quarter-long study abroad opportunities, most Seattle University colleges and schools offer faculty directed programs each summer. For the undergraduate, these programs add an international field-study component to courses taught during the spring quarter. For example, students in the Costa Rica field study course attend Biology 101 lectures during the spring quarter, and then conduct labs in Costa Rica in an intensive, compressed format. Please consult with the Education Abroad website for more information: www.seattleu.edu/studyabroad.

The Institute on Character Development

Dan Doyle, Director

The Institute on Character Development is dedicated to preparing Seattle University students to help guide middle and high school students through their own struggles with confusion, uncertainty and growth. For Seattle University students, it is an opportunity to build their own understandings of the questions and trials of everyday life. After the classroom experience in this course, the students will teach these same ideas and experiences to the young people in these outreach projects.

The class is divided into five areas and will be handled in an interdisciplinary fashion involving philosophical, theological, literary, sociological, and psychological patterns. These areas of interest will include:

1. the theoretical understanding of the four levels of happiness as conceived by Plato;
2. the idea of faith as it can be defined or experienced from the unconditional love of God, spirituality and prayer;
3. the phenomenology of love;
4. the vocabulary and arguments of ethics and morals that sharpen an understanding of means and ends, which are central to the understanding of human choice; and, finally;
5. suffering as a fact of life that is both a challenge and a catalyst in the inevitable search for meaning in our lives.

International Development Internship Program

Janet Quillian, Dr.PH, Director, Associate Professor

Office of the Provost

Phone: (206) 296-2683

E-mail: jquill@seattleu.edu

Objectives

The international development internship program (IDIP) is a 20 credit three phase academic program. The goal of the program is to instill in students an understanding of and commitment to the Jesuit values of service, leadership, and the promotion of social justice. Through academic analysis, reflection, and active participation with non-government organizations (NGOs) in the developing countries of Africa, Asia and Latin America; students are challenged to explore the root causes and consequences that undermine the well-being of people in the developing world.

Admission and Program Description

Applications are available to full-time enrolled students from all disciplines who have reached their junior year. Graduate students may also apply. Students must have a 3.40 GPA to apply. Applicants are selected by the director and an advisory committee. Students may earn 20 credits over three quarters. In the fall quarter there is a preparatory seminar of 3-credits followed by a 15-credit internship in a developing country during winter quarter. Spring quarter consists of a 2-credit integration seminar whereby students reflect, discuss and write about international development within the context of their academic preparation and international experience.

International Development Internship Program Courses

INIP 400	International Internship Seminar I	3
Academic preparation for understanding the complexities of international development. (fall)		
INIP 401	Field Internship	15
Internship with an international non-governmental organization (NGO) in a developing country in either Africa, Asia or Latin America. (winter)		
INIP 402	International Internship Seminar II	2
Academic reflection on the internship through completion of an advocacy project in relation to a student's internship experience. Additionally, a student must write a social analysis paper that allows a student to integrate their academic preparation and personal and professional experiences. (spring)		
INIP 496	Independent Study	1 to 5

Graduate Programs

Seattle University first offered graduate education in 1948. Since then, new graduate degree programs have been added over the years as the university strives to meet the changing needs of working professionals. The university added the School of Law in 1994 and today graduate and law students account for over 40 percent of total university enrollment.

Graduate Degrees Offered

See the *Graduate Bulletin* for further details.

College of Arts and Sciences

Master of Arts in Criminal Justice

Master of Arts in Organizational Design and Renewal

Master of Arts in Psychology

Master of Fine Arts in Arts Leadership

Certificate in Crime Analysis

Center for the Study of Sport and Exercise

Master in Sport Administration and Leadership

Center for Nonprofit and Social Enterprise Management

Executive Master of Nonprofit Leadership

Institute of Public Service

Master of Public Administration

Albers School of Business and Economics

Master of Business Administration

Master of International Business

Master of Professional Accounting

Master of Science in Finance

Leadership Executive Master of Business Administration

Post-Baccalaureate Certificate in Executive Leadership

Post-Master's Certificates and Certificate of Graduate Studies

College of Education

Master of Arts

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, literacy for special needs, special education, student development administration, and teaching English to speakers of other languages.

Master in Teaching

Educational Specialist

This degree may be earned in educational administration, school psychology, special education, or superintendent specialization

Doctor of Education

Post-Master's and Professional Certificates

School of Law

Juris Doctor (see the *Law Bulletin* for more information)

Joint Degrees with Albers School of Business and Economics

JD/MBA

JD/MIB

JD/MPAC

JD/MSF

Joint Degrees with the College of Arts and Sciences

JD/MPA

JD/MSAL

College of Nursing

Master of Science in Nursing

Post-Master's Certificates

College of Science and Engineering

Master of Software Engineering

School of Theology and Ministry

Master of Arts in Pastoral Counseling

Master of Arts in Pastoral Studies

Master of Arts in Transforming Spirituality

Master of Divinity

Post-Master's Certificates and Certificates of Graduate Studies

Information

For admission, program requirements, and information on specializations, see the *Graduate Bulletin* or contact Graduate Admissions, Seattle University, 901 12th Avenue, P.O. Box 222000, Seattle, WA 98122-1090, telephone: (206) 296-2000; fax: (206) 296-5656; seattleu.edu.

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Counseling and Psychological Services

Romando Nash

Director
Housing and Residence Life

Faizi Ghodsi

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International Student Center and
Executive Director of Student Services

Michelle Renée Etchart

Director
Leadership Development

Monica Nixon

Director
Multicultural Affairs

Laurie Prince

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New Student and Family Programs

Michael Sletten

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Public Safety and Transportation

Mark Williams

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Recreational Sports

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Student Activities

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Advancement Initiatives

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Faculty

The year in parenthesis following faculty names indicates initial appointment to the university. Asterisk (*) denotes tenured faculty.

Bryan L. Adamson, JD (2002)

Associate Professor, Director of the Law Clinic, School of Law
BS Mass Communications and PhD Interdisciplinary Studies, Miami University, Ohio; MA Communications, Purdue University; JD, 1990, Case Western Reserve University Law School

Saheed Adeyinka Adejumobi, PhD* (2005)

Associate Professor, Global African Studies, College of Arts and Sciences
BA History of African Peoples, University of Lagos, Nigeria; MA U.S./African – American and African History, University of Oregon; PhD West Africa, Modern Period, 2001, The University of Texas at Austin

Mara B. Adelman, PhD* (1994)

Associate Professor, Department of Communication, College of Arts and Sciences
BA Speech Communication, University of California, Los Angeles; MA Speech Communication and PhD Speech Communication, 1986, California State University, San Diego

Deborah Ahrens, JD (2007)

Assistant Professor, School of Law
BA with honors Public Policy, Brown University; MPP, Harvard University, John F. Kennedy School of Government; JD magna cum laude, 2000, New York University School of Law

Janet E. Ainsworth, JD* (1988)

Professor, School of Law
BA magna cum laude and Louis Dembitz Brandeis Scholar, Brandeis University; MA East Asian Studies, Yale University; JD cum laude, 1980, Harvard Law School

Peter J. Alaimo, PhD (2004)

Assistant Professor, Department of Chemistry, College of Science and Engineering
BS Chemistry and Philosophy, University of Michigan, Ann Arbor; PhD Chemistry, 1999, University of California, Berkeley

Mary A. Alberg, PhD* (1979)

Professor, Department of Physics, College of Science and Engineering
BA Physics, Wellesley College; MS and PhD Physics, 1974, University of Washington

A. Daktari Alexander, PhD (2007)

Assistant Professor, Department of Criminal Justice, College of Arts & Sciences
BS Psychology, University of Washington; MS Criminal Justice, Michigan State University; PhD Sociology, Crime, Law and Justice Program, 2004, the Pennsylvania State University

Kenneth D. Allan, PhD (2006)

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Accreditations

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ABET, formerly known as Accreditation Board for Engineering and Technology
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National Council for Accreditation of Teacher Education
Northwest Commission on Colleges and Universities

Approvals

American Medical Association
American Society of Clinical Pathologists
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 (AACRAO)
American Association of Higher Education
American College Personnel Association
American Council on Education
American Theological Library Association
Association for Student Judicial Affairs
Association of American Colleges
Association of American Law Schools
Association of Catholic Colleges and Universities
Association of College and University Housing Officers—International
Association of Governing Boards
Association of Independent Liberal Arts Colleges for Teacher Education (AILACTE)
Association of Jesuit Colleges and Universities
The College Board
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Great Northwest Athletic Conference
Institute for International Education
International Federation of Catholic Universities

Jesuit Education in Business Network

Jesuit Association of Student Personnel Administrators

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 Student Personnel Administrators

National Collegiate Athletic Association

National League for Nursing

Nonprofit Academic Centers Council

Northwest Association of Private College and University Libraries

Orbis Cascade Alliance

Pacific Northwest Association of Collegiate Registrars and Admissions Officers (PACRAO)

Private Registrars of Washington (PROW)

Washington Association of Independent Colleges and Universities (WAICU)

Washington Council on High School-College Relations

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Includes graduate programs; excludes School of Law

ACCT	Accounting
ADST	Addiction Studies
AEDT	Adult Education and Training
AIST	Asian Studies
ANTH	Anthropology
ARAB	Arabic
ART	Art
ARTL	Art Leadership
BETH	Business Ethics
BIOL	Biology
BLAW	Business Law
CEEGR	Civil and Environmental Engineering
CHEM	Chemistry
CHIN	Chinese Language
CISS	Contemporary Issues in Social Science
CLBR	Culture and Language Bridge
CMJR	Communication/Journalism
COUN	Education—Counseling
CRJS	Criminal Justice
CSSE	Computer Science/Software Engr
CUIN	Education—Curriculum and Instruction
DIUS	Diagnostic Ultrasound
DRMA	Drama
ECEGR	Electrical and Computer Engineering
ECIS	E-Commerce and Information Systems
ECON	Economics
EDAD	Educational Administration
EDLR	Educational Leadership
EDUC	Education
EMBA	Executive Leadership MBA
ENGL	English
EPCT	Professional Certification for Teachers
EPDXX	Professional Development—Post Baccalaureate
EVST	Environmental Studies
EXLR	Executive Leadership
FINC	Finance
FINR	Fine Arts
FREN	French
GAST	Global African Studies
GERM	German
HIST	History
HONR	Humanities (Honors)
HUMT	Humanities (Matteo Ricci College)
INBU	International Business
INIP	International Development Internship Program

INST	International Studies
ISSC	Interdisciplinary Science (See Gen.Sci.)
ITAL	Italian
JPAN	Japanese
LAST	Latin American Studies
LATN	Latin
LBST	Liberal Studies
LITC	Literacy for Special Needs
MATH	Mathematics
MBA	Master of Business Administration
MDLG	Modern Languages
MEGR	Mechanical Engineering
MGMT	Management
MKTG	Marketing
MLSC	Military Science
MUSC	Music
MVST	Medieval Studies Minor
NPLR	Nonprofit Leadership
NURS	Nursing
NURSI	Nursing (Immersion)
ODVR	Organizational Design & Renewal
OPER	Operations
PHIL	Philosophy
PHYS	Physics
PLSC	Political Science
PSYC	Psychology
PUBA	Public Affairs
PUBM	Public Administration
SABD	Study Abroad
SADL	Sport Administration and Leadership
SDAD	Student Development Administration
SOCL	Sociology
SOCW	Social Work
SPAN	Spanish
SPED	Special Education
SPEX	Sport and Exercise
SPSY	Education—School Psychology
STMA	School of Theology and Ministry—Advanced
STMC	School of Theology and Ministry—Pastoral Counseling
STML	School of Theology and Ministry—Pastoral Leadership
STMM	School of Theology and Ministry
TEED	Teacher Education
THRS	Theology and Religious Studies
TSOL	Teaching English to Speakers of Other Languages
WMST	Women Studies



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