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2018

Bulletin: General Catalog Issue 2018-2019

Portland State University

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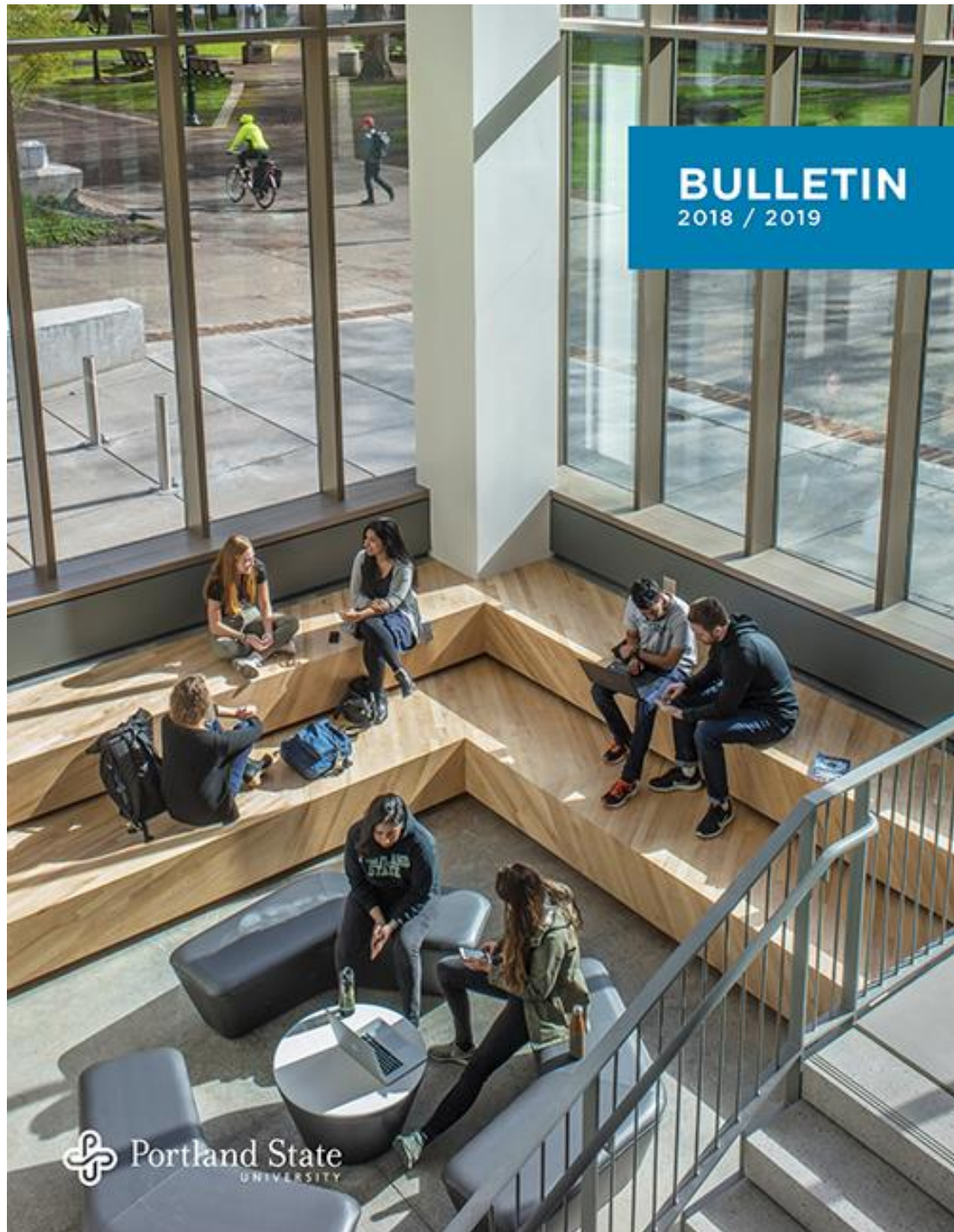
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Portland State University 2018-2019 Bulletin

Volume 1-PROGRAMS



2018-2019 BULLETIN

Information in this *Bulletin* is accurate as of June, 2018. It has been compiled with care but may contain errors. Any errors discovered should be reported to the Office of Academic Affairs.

The *Portland State University Bulletin* is not a contract but rather a guide for the convenience of students. The University reserves the right to change or withdraw courses; to change the fees, rules, and calendar for admission, registration, instruction, and graduation; and to change other regulations affecting the student body, at any time.

Portland State University supports equal opportunity in admissions, education, employment, housing, and use of facilities by prohibiting discrimination in those areas based on age, color, disability, marital status, national origin, race, religion or creed, sex or gender, gender identity or gender expression, sexual orientation, veteran status, or any other basis in law. This policy implements state and federal laws. Inquiries about it should be directed to the Office of Equity and Compliance, 1600 SW 4th Avenue, Suite 830, Portland, OR 97201, 503-725-5919, or via email to equityandcompliance@pdx.edu; TTY: 503-725-6504.

P.O. Box 751
Portland, OR 97207-0751

PSU Admissions: 503-725-3511
PSU Main Line: 503-725-3000
Toll Free: 1-800-547-8887

www.pdx.edu

PROGRAMS OF STUDY ACADEMIC CALENDAR

	FALL 2018	WINTER 2019	SPRING 2019	SUMMER 2019	FALL 2019
¹ Advance registration begins	May 14	Nov. 5, 2018	Feb. 18	May 6	May 13
Classes begin	Sept. 24	Jan. 7	April 1	June 24	Sept. 30
Last day to enroll in classes, add a class, or make section changes	Oct. 5	Jan. 18	April 12	varies	Oct. 11
Last day to drop without course recorded as W	Oct. 7	Jan. 20	April 14	varies	Oct. 13
Last day of refund period	Oct. 21	Feb. 3	April 28	varies	Oct. 27
Last day to make changes in grading option	Nov. 11	Feb. 24	May 19	varies	Nov. 17
Last day to withdraw from a class	Nov. 11	Feb. 24	May 19	varies	Nov. 17
Final examinations	Dec. 3-8	March 18-23	June 10-15		Dec. 9-14
Term ends	Dec. 8	March 23	June 15		Dec. 14
² Commencement			June TBD		
Holidays	Nov. 12 Nov. 22-23	Jan. 21	May 27	July 4Sept. 2	Nov. 11 Nov. 28-29

¹ Refer to www.pdx.edu/registration for information on registration dates, deadlines and procedures.

² Refer to www.pdx.edu/commencement for schedule of ceremonies by school and college.

WELCOME TO PORTLAND STATE UNIVERSITY

Vision, Mission and Values

Our vision: Portland State University leads the way to an equitable and sustainable future through academic excellence, urban engagement and expanding opportunity for all.

Our mission:

- We serve and sustain a vibrant urban region through our creativity, collective knowledge and expertise.
- We are dedicated to collaborative learning, innovative research, sustainability and community engagement.
- We educate a diverse community of lifelong learners.
- Our research and teaching have global impact.

Our values:

- We promote access, inclusion and equity as pillars of excellence.
- We commit to curiosity, collaboration, stewardship and sustainability.
- We strive for excellence and the kind of innovation that solves problems.
- We believe everyone should be treated with integrity and respect.

Engaged with the community

Portland State University is a nationally recognized leader in community engagement, combining academic rigor in the classroom with community-based learning. With a student body of 28,000, Portland State is selected by a wide range of students from the U.S. and abroad. The university's urban setting and focus on community partnerships, make it a "living laboratory" that successfully prepares tomorrow's forward thinking leaders with the experience they will need to succeed. Portland State's growing reputation for excellence prompted *U.S. News & World Report* to rank PSU among the top 10 "most innovative" universities in the nation in 2016-17.

Distinguished programs and faculty.

Many of Portland State's disciplinary programs are nationally ranked in the top 20 in the United States, and U.S. News & World Report has ranked Portland State's curriculum among the best in the nation for the past 10 years. The innovative University Studies program, a four-year general education program which promotes

community-based learning, interdisciplinary teaching and learning and engagement in real world problems, has established Portland State as a national model for other colleges and universities, seeking to adapt their curriculum to better engage with their own communities.

Portland State professors are prized for their knowledge, research, achievements, and, ability to engage students. Faculty come to Portland State from colleges and universities around the world. Though diverse in culture, background, language, and ethnicity, they come to Portland unified in their commitment to be part of the University's exceptional approach to learning, engagement, and research.

PSU's motto, "Let knowledge serve the city," inspires faculty research locally and around the world. Many professors conduct research that addresses some of society's greatest challenges—providing students with firsthand

knowledge and opportunities for involvement and collaboration in their communities. Faculty use their expertise to serve the region through their work with businesses, not-for-profits, and governmental agencies and by holding key posts in professional, cultural, and civic groups.

Portland: The community is our campus.

Portland State University's prized location in the middle of a major city guarantees students are always within easy reach of something exciting. Parks, museums, cafes, theaters, shopping, acclaimed restaurants, and professional sports are all close by.

Since its establishment in 1946 to meet the educational needs of GI's home from World War II battlefields, Portland State found its first home in Vanport, a former federal housing project along the Columbia River. The campus moved to Lincoln Hall in Portland's South Park Blocks in 1952 and now encompasses 50 city blocks, yet still retains a park-like beauty within its urban setting.

The Park Blocks, a natural gathering area for students and faculty, provide a place to talk or study. East of the Park Blocks, PSU's Urban Center stands at the busiest public transportation hub in the city. It's the only location in the city where TriMet's bus system, Portland Streetcar, and MAX light rail line come together. Bicycling to campus is not considered an alternative transportation method, but a main way students get to campus.

With urban sophistication, small town accessibility, and

many outdoor activities, Portland and Portland State offer a great living and learning experience.

Sustainability: It's what we do.

In 2016 Sierra magazine ranked PSU 14th in the nation, and first in Oregon, for its commitment to sustainability. The official publication of Sierra Club, Sierra commended PSU for its innovative strategies for reducing waste, conserving resources, and advancing environmental research.

At Portland State University, students have the opportunity to take sustainability lessons beyond the classroom, engaging directly with the community to solve real-world problems and achieve new levels of sustainability at the local and regional levels. Portland State strives to harness the strengths of the university—with new ideas, innovative partnerships, and rigorous academic programs—moving closer to solving the environmental, social, and economic problems of our time.

The campus itself is a model for sustainability; each new building or major renovation on campus since 2004 has received a Leadership in Energy and Environmental Design (LEED) certification. The new buildings include such sustainable design features as ecoroofs, rainwater harvesting, and geothermal heating and cooling systems.

Working with like-minded businesses, individuals, and organizations, faculty and students are performing valuable research and developing solutions to address issues related to climate change, public health, urbanization, and much more. With sustainability as a campus-wide learning outcome, students in departments across campus consider issues that integrate economic, social, and environmental viewpoints. Armed with this knowledge and experience, they will join a generation of leaders building a more equitable, livable, resilient world.

Research & Strategic Partnerships

PSU is the region's leading urban research university and offers wide-ranging research opportunities for undergraduate and graduate students. PSU researchers engage in addressing the critical challenges of the 21st century through groundbreaking research in environmental science, urban development, and community health. Our faculty includes internationally recognized researchers in engineering and physical, natural, and social sciences, making vital contributions in research areas ranging from the origins of life to machine learning, to designing resilient cities. Researchers at PSU engage in a tradition of innovation and discovery and work across disciplines and with industry, government agencies, and other universities to find solutions, fill knowledge gaps, and improve life in Oregon, the nation, and the world.

PSU partners with our sister institutions in Oregon through Signature Research Centers in nanotechnology, drug

discovery, and sustainability in the built environment. We collaborate with Oregon Health and Science University through interdisciplinary research where our expertise in social science, biology, and chemistry add value to their clinical expertise. Our research strengths in specialized fields such as invasive species and ecosystem services attract world-class partners like the Smithsonian Institution. And our strong relationships with companies like Intel and Portland General Electric provide partnerships in cutting-edge research as well as training opportunities for students and employees.

The Founding of Portland State University

Portland State University's roots trace back to the summer of 1946 when the Oregon State Board of Higher Education approved the opening of a temporary school in North Portland to offer lower-division coursework. Vanport Extension Center (VEC), named for its location between Portland and Vancouver, was situated in Vanport City, a wartime housing project that promised resident and classroom space for the students attending VEC. Spearheaded by founder and director, Stephen Epler, VEC soon became known as "Vanport College" and was immediately successful in meeting local demands for higher education by returning World War II servicemen and women. When fall term registration closed at VEC, more than 1,400 students enrolled, eclipsing the projection of 500 and signaling future success for the center.

Seemingly ending VEC's future, the 1948 Memorial Day flood of the Columbia River destroyed Vanport City, including the center. Epler and his colleagues kept the school alive, using federal funds to reinstate the campus at "Oregon Ship," a former Oregon Shipbuilding Corporation site. The school's commitment and fighting spirit earned it the national reputation as "the college that would not die." Students, faculty, community groups, and legislators were strong advocates for the school, spurring its permanence and move in 1952 to its present location in Portland's South Park Blocks, where it became the Portland State Extension Center in the former Lincoln High School (now Lincoln Hall).

In 1955, the legislature created Portland State College as a four-year degree-granting institution. Graduate work was added in 1961; doctoral programs began in 1968, and the institution became Portland State University in 1969. The University has grown from an initial enrollment of 1,410 students in 1946 to become one of Oregon's largest universities.

“Portland State formed a legacy of courage, leadership, dedication, and collaboration during its founding years, 1946-1955. These qualities enabled a small extension center to become a four-year, degree-granting college. Today this legacy inspires Portland State University to enhance the intellectual, social, cultural, and economic vitality of Portland, the Pacific Northwest, and beyond.”¹

The Founder and presidents who have served the University are:

- Stephen E. Epler (Vanport Extension Center), 1946 to 1952;
- John F. Cramer, 1955 to 1958;
- Branford P. Millar, 1959 to 1968;
- Gregory B. Wolfe, 1968 to 1974;
- Joseph C. Blumel, 1974 to 1986;
- Natale A. Sicuro, 1986 to 1988;
- Roger N. Edgington (interim president), 1988 to 1990;
- Judith A. Ramaley, 1990 to 1997;
- Daniel O. Bernstine, 1997 to 2007;
- Michael F. Reardon (interim president), 2007 to 2008; and
- Wim Wiewel, 2008 to 2017.
- Rahmat Shoureshi, 2017 to present.

¹From Creating Portland State: 1946-1955.

Accreditation

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution. Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution.

Individuals may also contact:

Northwest Commission on College and Universities
8060 165th Avenue N.E., Suite 100
Redmond, WA 98052
(425) 558-4224
www.nwccu.org

In the College of Liberal Arts & Sciences; the Department of Speech and Hearing Sciences is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language Hearing Association (ASHA). The Department of Chemistry is accredited by the American Chemical Society (ACS).

In the College of the Arts; the School of Music & Theater's bachelor's and master's programs are accredited by the National Association of Schools of Music (NASM). Theater programs are accredited by the National Association of Schools of Theater (NAST). The Master of Architecture degree in the School of Architecture is accredited by the National Architectural Accrediting Board (NAAB).

In the College of Urban and Public Affairs; the Master of Urban and Regional Planning degree is accredited by the Planning Accreditation Board (PAB). The Master of Public Administration degree is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA). The Master of Public Administration – Health Administration and the Master of Public Health – Health Management & Policy are accredited by the Commission on Accreditation of Healthcare Management Education (CAHME).

In the Graduate School of Education; teacher education programs are accredited by the Council for the Accreditation of Educator Preparation (CAEP) and by the Oregon Teacher Standards and Practices Commission (TSPC). The counseling programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The Helen Gordon Child Development Center is accredited by the National Association for Education of Young Children (NAEYC).

In the Maseeh College of Engineering and Computer Science; undergraduate programs in civil, computer, electrical, and mechanical engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The computer science program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). ABET can be contacted at 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700.

In the School of Business; the undergraduate and graduate business programs as well as the accounting program are accredited by The Association to Advance Collegiate Schools of Business International (AACSB).

In the School of Public Health; the bachelor's programs in Health Studies, and the Master of Public Health degrees are accredited by the Council on Education for Public Health (CEPH).

In the School of Social Work; both the bachelor's and the master's programs are accredited by the Council on Social Work Education (CSWE).

ADMISSIONS REQUIREMENTS

U.S. Citizens and Immigrants (Domestic Undergraduate Applicants)

Application

Domestic students must submit the following information to the Office of Admissions.

1. **Application form and nonrefundable fee.** Students should apply at www.pdx.edu/admissions/apply. To assure consideration for admission, the application should be submitted by the priority filing dates listed and must be accompanied by a nonrefundable \$50 application fee (fees subject to change without notice). The application and the nonrefundable \$50 application fee are valid for one calendar year.
2. **Admission validation.** To validate admission, the student must register for classes during the initial term of admission. If the student does not register for this term, the application can be updated to one of the next three consecutive terms without repaying the fee. After this time period the student must submit a new application along with another \$50 fee.
3. **Official transcripts.** Transcripts must be submitted directly from each high school or college attended. Transfer students who have earned fewer than 30 quarter credits of transferable college coursework are also required to submit official high school transcripts. To be considered “official,” transcripts must be received by PSU in the sealed original envelope or through approved electronic means from the issuing school. Since all official transcripts submitted become the property of PSU and cannot be copied or returned to the student, students are encouraged to obtain unofficial copies of their transcripts from prior institutions for advising or personal purposes.
4. **Official test scores.** Freshman applicants who have graduated from an accredited and/or standard high school within three years of Portland State enrollment must submit scores on the College Board SAT or ACT®. Similarly, transfer applicants with fewer than 30 quarter credits of transferable college coursework must also submit standardized test scores. The applicant is responsible for seeing that test scores are submitted directly to PSU from the testing board. For more information on these examinations, contact the College Board at Collegeboard.org or ACT® at actstudent.org; or PSU Testing Services at www.pdx.edu/shac/testing-services. Note: High school graduates before 1975 are not required to provide the ACT® or SAT.

Notice: Altered transcripts and falsified applications. Students who knowingly submit altered transcripts or falsified applications jeopardize their admission status and may have their admission rescinded and/or their registration canceled. All records submitted, filed, and accumulated in the Office of Admissions become the property of the University. The number of students admitted for any term is subject to the availability of space. When space is limited, selection may be based on grade point average, date of application, intended major, etc.

Admission Requirements—Entering Freshmen

To be admitted as freshmen, students need to fulfill each of the requirements (or alternatives to each) as specified in items 1-4 below.

1. **High school graduation requirement.** Must have graduated from a standard or accredited high school. Students who have not graduated from high school or from a standard or accredited high school may meet entry requirements through alternative testing. Alternative testing includes successful completion of one of the following:
 - Test of General Education Development (GED):
 - If you took the GED after January 1, 2014: earn an overall average score of 170 and a minimum score of 150 on each subject test
 - If you took the GED between January 1, 2002 and December 31, 2013: earn a minimum overall average score of 580 and a minimum score of 410 on each subject test
 - If you took the GED prior to January 1, 2002: earn an overall average score of 46 and a minimum score of 40 on each subject test
 - HiSET®
 - Minimum score of 15 on each subject test area and a 4/6 on the essay component of the Language Arts-Writing subject test
 - TASC®
 - Minimum score of 580 on Language Arts-Reading, 560 on Mathematics, 560 on Language Arts-Writing, and at least 6/8 on the Language Arts-Writing essay. Students from non-accredited or non-standard high schools, or home-school students may meet the high school graduation requirement with a minimum score of 1120 or higher on the combined evidence-based reading and writing, and math portions of the SAT, or with a 22 on the

ACT®. In addition to successfully meeting the criteria outlined for the SAT or the ACT®, students must also earn a minimum score of 470 or above (940 total) on two College Board SAT Subject Tests (Math Level I or IIc, and one additional subject test of the student's choice). An examination in a second language is strongly recommended to qualify the applicant for admission by meeting the language proficiency requirements. Students who do not take an SAT Subject test in a second language must prove language proficiency through another approved process.

2. **Subject requirements.** Resident applicants must satisfactorily (grade of C- or above) complete at least 15 units (one year equal to one unit) of college preparatory work in the following areas, while non-resident applicants must satisfactorily (grade of C- or above) complete at least 13 units (one year equal to one unit):

- a. **English (4 units).** Shall include the study of the English language, literature, speaking and listening, and writing, with emphasis on and frequent practice in writing expository prose during all four years.
- b. **Mathematics (3 units).** Shall include first-year algebra and two additional years of college preparatory mathematics selected from geometry (deductive or descriptive); advanced topics in algebra (through Algebra II), trigonometry, analytical geometry, finite mathematics, advanced applications, calculus, and probability and statistics, or courses that integrate topics from two or more of these areas. One unit is strongly recommended in the senior year. (Algebra and geometry taken prior to ninth grade will be accepted if posted on HS transcript.)
- c. **Science (3 units).** Shall include at least a year in fields of inquiry based college preparatory science such as biology, chemistry, physics, or earth and physical science. Science courses that are "inquiry based" provide students the opportunity to apply scientific reasoning and critical thinking to support conclusions or explanations with evidence from their investigations. It is strongly recommended that one year be taken as a laboratory science and that a total of three years of science be taken.
- d. **Social Studies (3 units).** Shall include analysis of societal issues and events. It is strongly recommended that study includes knowledge and use of geographic information, patterns of United States history, patterns of human history, structures and systems of US Government, and analysis of economic systems.
- e. **Second Language (2 units).** Shall include demonstrated proficiency equivalent to two years of the same high school-level second language. This

requirement applies to anyone graduating from an Oregon high school in 1997 or any year after. Students may demonstrate proficiency by meeting one of the following options:

High School and College Options

- Pass with a C- or better, two years of the same high school-level second language
 - Pass with a C- or better, the third year of a high school-level second language
 - Pass with a D- or better two quarters or two semesters of college-level second language
- #### **Proficiency-based Assessment Options**
- Score of 2 or higher on an Advanced Placement Foreign Language Test
 - Score of 4 or higher on an International Baccalaureate Standard Level Foreign Language Exam
 - Score of 40 or higher on a CLEP Foreign Language Exam
 - Score of 500 or higher on an SAT Foreign Language Subject Test
 - Satisfactory performance on a college second-language departmental challenge exam
 - Education satisfactorily completed through 7th grade in a school or country where English was not the language of instruction
 - Satisfactory performance (P) on a Brigham Young Foreign Language Assessment (BYU FLATS)
 - Score of novice-high or higher on the Standards-based Measurement of Proficiency (STAMP)
 - Score of novice-high or higher on the ACTFL scale in American Sign Language (ASL)
 - Score of novice-high or higher on a ACTFL Oral Proficiency Interview

**American Sign Language qualifies as a second language.

Students failing to meet the Second Language Proficiency requirement at the time of admission may be admitted, but will not be able to earn an undergraduate degree at Portland State University until the second language requirement has been completed. Students must provide official high school or college transcripts to demonstrate the Second Language Proficiency Requirement has been met.

Alternatives to the subject requirements. (Any one of the following.)

Score an average of 470 or above (940 total) on the SAT II subject exams (English Composition, Math Level I or IIc,

and a third test of the student's choice).

Take make-up coursework for specific subject requirements missed in high school and achieve a passing grade. Note: Satisfactory completion of Math 95 or its equivalent (Intermediate Algebra) fulfills in total the subject requirement in mathematics. Take make-up coursework for specific subject requirements missed in high school and achieve a passing grade. Note: Satisfactory completion of Math 95 or its equivalent (Intermediate Algebra) fulfills in total the subject requirement in mathematics.

3. Grade point average requirement. High school students with a cumulative unweighted grade point average of at least 3.00 in all graded subjects taken toward high school graduation. Students who do not meet the 3.00 GPA requirement may be admitted based on a combination of GPA and test scores.

Admission Requirements—Transfer Students

To be admitted as a transfer student, applicants must have a minimum GPA of 2.25 in 30 transferable quarter credit hours of college work. Applicants who present a transferable associate's degree or an Oregon Transfer Module (OTM) will be admitted with a minimum cumulative transferable GPA of 2.00. Students who have accumulated fewer than 30 transferable credits of college work must also meet the freshman admission requirements.

1. Writing proficiency requirement. To be admitted as a transfer student, applicants must satisfactorily complete Writing 121 or its approved equivalent with a C- or better.

2. Second language proficiency requirement. All resident students must meet the second language proficiency requirement described in 2e of the Freshman Admission Requirements section (p. 8).

3. Academic probation/disqualification from other institutions. Academic probation/disqualification will not affect the admissibility of a student whose complete academic record meets the minimum admission requirements in effect at the time of application.

4. Disciplinary disqualification. A student who has been disqualified from another institution for disciplinary reasons must be eligible to re-enroll at that institution to be considered for admission to Portland State University. Students with extenuating circumstances may petition for a waiver of this policy.

More information on transferring to PSU is available at www.pdx.edu/transferstudent.

International Students

Application

Undergraduate International Students

Application

Applicants who are not U.S. citizens who are currently overseas or reside in the U.S. on non-immigrant visas are considered for admission as international students. Candidates for admission are given priority if complete applications are filed by:

- August 1, 2019 for Fall 2019
- December 7, 2019 for Winter term 2020
- March 3, 2019 for Spring 2020
- July 5, 2020 for Summer 2010 for summer term

Applications will be considered for all terms subject to department and/or University restrictions and/or course availability.

International Undergraduate applicants should submit the following information to the Office of International Undergraduate Admissions. All documents submitted become the property of PSU and cannot be photocopied, returned, or forwarded to third parties.

1. Application form and \$50 nonrefundable application fee. The application and nonrefundable application fee are valid for one academic year only. The \$50 fee cannot be waived.
2. Official transcripts. To be considered official, transcripts must arrive in the Office of International Admissions in a sealed envelope from the issuing school. Applicants whose admission will be based on high school/secondary school graduation should submit official transcripts of their final four years of high school/secondary school study or documentation as requested by the office of Undergraduate International Admissions. Transfer students must submit official transcripts from each college or university attended, regardless of whether or not they feel their prior academic study may be relevant to their PSU study. Transfer students with fewer than 30 quarter credits of college/university coursework are also required to submit transcripts from their final four years of high school/secondary school. Credits from accredited schools outside the U.S. will be transferred to PSU according to established international transfer credit guidelines and policies. See Academic Credit section of this Bulletin for more information. Students who knowingly submit altered or falsified academic records or other application

documents jeopardize their admission status and may have their admission rescinded and/or registration canceled.

3. Proof of English language proficiency if seeking direct admission to academic coursework.
4. Evidence of adequate financial resources for educational and living expenses. (International applicants residing in the United States on visas other than F-1 or J-1 student visas may not be required to submit proof of financial resources.)
5. Proof of current immigration status (if already residing in the United States).
6. Admission validation. To validate admission, the student must register for classes during the initial term of admission. If the student does not register for this term, the application start term can be changed to one of the next three consecutive terms without repaying the application fee. After this time period, the student must submit a new application along with another \$50 fee.

Admission Requirements for International Students

Applicants must demonstrate an appropriate level of academic preparation.

Freshman: completion of U.S. academic (university preparatory) high school or secondary school equivalent as determined by the Office of Undergraduate International Admissions with a minimum equivalent 3.00 GPA.

Transfer: completion of 30 transferable college quarter credits, excluding ESL courses, with a 2.25 GPA or higher at a U.S. regionally accredited college/university or foreign equivalent as determined by the Office of International Admissions. Transfer students who present a transferable associate's degree (AS or AA or an Oregon Transfer Module (OTM)) will be admitted with a minimum cumulative 2.00 GPA.

English language proficiency requirement.

Admitted students who meet the English language proficiency requirement may enroll directly into academic classes. Those who do not meet this requirement will be placed in ESL classes until the requirement has been met. Applicants may demonstrate English language proficiency by submitting qualifying TOEFL, IELTS, or PTE scores. See minimum qualifying scores below.

English language proficiency requirements may be found at <https://www.pdx.edu/undergraduate-admissions/international/ug-english-requirements>.

Information on the international TOEFL is available at www.ets.org/toefl.

Intensive English Language Program

Persons seeking English language training only, who do not wish to continue toward university-level academic study, may apply for admission to the Intensive English Language Program (IELP). However, persons who want to study English before beginning academic study are eligible for conditional undergraduate or postbaccalaureate admission without minimum English language proficiency test scores.

The IELP provides both credit and non-credit classes. Students must have earned the equivalent to a U.S. high school diploma for admission consideration. Prospective students must be in legal U.S. immigration status at the time of application.

Contact the Intensive English Language Program, 503-725-4088 or www.pdx.edu/esl, for additional IELP requirements.

Admission to Professional Programs and Schools

Admission to Portland State University does not automatically admit students to its professional programs and schools. Standards for admission and evaluation of transfer credits often exceed general University requirements. Students should check this catalog under the appropriate academic unit to determine if a unit has special admission requirements.

Student Orientation Programs

503-725-5511

www.pdx.edu/undergraduate-admissions/orientation

The Office of Admissions and New Student Programs coordinates an orientation program for all undergraduate students new to PSU. All newly admitted undergraduate students are required to attend a new student orientation session prior to registering for courses.

After admission to PSU, each undergraduate student must participate in a one-day orientation session prior to the beginning of his or her first term. An advance tuition deposit of \$200 is required to sign up for new student orientation in the fall term.

Orientation provides students with the opportunity to meet with current PSU faculty, professional staff, and students in order to:

- Understand academic requirements of a baccalaureate degree
- Successfully develop an academic plan and register for courses

- Access programs and services available to PSU students
- Facilitate the academic and social transition to the University community

Viking Days takes place the week prior to the start of fall term during the month of September. This is a week of activities, information sessions, open houses, and social events in which new students are invited to attend and encouraged to participate. For further information, visit www.pdx.edu/undergraduate-admissions/orientation.

ACADEMIC RECORDS, CREDIT, AND APPEALS

Student Records

The University Student Records Policy, in accordance with the federal Family Educational Rights and Privacy Act of 1974 as Amended, governs the collection, use, and disclosure of student records with the goal of ensuring their privacy. Generally it provides the right to non-release of confidential information except as directed by the student, or as provided by law; the right to inspect educational records maintained by the University; the right to correction of errors, a hearing if necessary, and the right to file a complaint with the U.S. Department of Education. Learn more about student records privacy online at www.pdx.edu/registration/student-records-privacy-policy.

Documents Submitted to the University

All documents, including transcripts, submitted to PSU become the property of the University and are not intended for duplication or return to the student.

Academic Record Sealed After Degree Earned

Portland State University academic records are sealed thirty days after the conferral of a degree. After this date, changes to majors and minors, addition of departmental honors, removal of incomplete grades, grade changes, changes to degree posting, or other changes to an academic record cannot be made except by decision of the Scholastic Standards Committee or the Graduate Council.

Academic Credit

A credit is the basic unit of measurement of educational accomplishment. One credit normally connotes 10 hours of lecture-recitation or 20 or more hours of laboratory, studio, or activity work. The majority of courses at Portland State University involve three or four hours per week of lecture-recitation. PSU is on the quarter-system calendar. Semester credits transferred from other accredited United States schools may be converted to PSU's credits by multiplying by 1.5.

The 1.5 multiplication rules apply only to semester credits transferred from U.S. schools. Semester credits transferred from accredited schools outside the United States will be converted according to established international transfer credit guidelines and policies.

Academic Credit Overload

Undergraduate Academic Credit Overload

Undergraduate students who enroll in more than 21 credits per term are considered to be in academic overload. PSU audit credits and transfer credit taken at other institutions while concurrently enrolled at PSU are counted in determining overload status. **Transfer credits that result in an overload for a given term will not be accepted in transfer unless prior approval has been granted.**

Academic overload must be approved on a term-by-term basis as follows:

- 22-25 credits: Students must obtain prior approval from their academic program adviser using the Overload Approval Form, to be submitted to the Office of the Registrar in advance of the overload term.
- 26 or more credits: Students must obtain prior permission from the Academic Requirements Committee (ARC) by submitting an ARC petition in advance of the overload term. Students must provide justification for the overload and obtain written support from their academic program adviser. Petitions must be submitted using the Academic Requirements Committee petition prior to the first day of the overload term.

Graduate Academic Credit Overload

Graduate students who enroll in more than 16 credits per term are considered to be in academic overload.

Academic overload must be approved in advance as follows:

- 17-19 credits: Students must obtain approval from the department head of their academic program using the Graduate Petition Form.
- 20 or more credits: Students must obtain approval from the chair of the graduate committee of their academic program and the dean of graduate studies using the Graduate Petition Form.

Class standing

Class standing is based on the number of credits a student has completed, according to the following schedule:

Class Standing	Credits Completed
Freshman	1-44
Sophomore	45-89
Upper-division standing	90 or more
Junior	90-134
Senior	135 or more

Postbaccalaureate Hold a degree from an
accredited college or university

Appeals and Grievances

Grievances and requests for exceptions to University policies and requirements may be filed with specific committees authorized to deal with specific student concerns.

Academic Appeals Board

This board hears appeals from students who claim to have received prejudiced or capricious academic evaluation and makes recommendations on cases to the Provost. In such cases the student should first consult with the instructor. If the grievance is not resolved, the student should then contact the department chair, then the dean of the college or school. If the grievance is still not resolved, the student may then appeal by writing a letter to the Academic Appeals Board. Appeals may be filed in the Office of Dean of Student Life, 433 Smith Memorial Student Union.

Academic Requirements Committee (ARC)

The ARC is a subcommittee of the PSU Faculty Senate and is responsible for developing policies and adjudicating petitions regarding academic regulations related to credit loads, transfer credit, degree and certificate requirements for all undergraduate programs. It also develops and recommends policies and adjudicates student petitions regarding initial undergraduate admissions, including entering freshmen. The ARC Petition process is managed by an online process accessed at the Academic Requirements Committee Petitions website.

Deadline Appeals Board

A student may petition this board to be exempted from published registration deadlines for the current term when mitigating circumstances prevent deadline compliance. Petitions must include documentation of the reason for missing the deadline.

The petition may be accessed at
www.pdx.edu/registration/dac.

For further information students may call 503-725-3220.

Scholastic Standards Committee (SSC)

The SSC is a Faculty Senate committee charged with developing and recommending academic standards to maintain the integrity of the undergraduate program and academic transcripts of the University; developing, maintaining and implementing protocols regarding academic changes to the undergraduate transcript; reviewing and ruling on petitions for any retroactive change to the academic record such as a grade option

change, drop, add, and extension of an incomplete beyond the one year deadline; and adjudicating student petitions for academic reinstatement to the University. Conferral of an accredited transferable Associate's or Bachelor's degree constitutes automatic reinstatement to the University once an official copy of a transcript with degree posted is presented to the Office of the Registrar. Petition forms to make retroactive changes to undergraduate academic record, or to seek reinstatement to the University may be obtained at www.pdx.edu/registration/petitions. Forms may also be obtained at the Registrar's Office, WH 21. For further information call 503-725-3220.

ENROLLMENT

Enrollment Process

Registration

Students who have been formally admitted or who have filed a Non-Degree Entry form may register for classes online at www.banweb.pdx.edu during the preregistration period for a given term. Registration dates are determined by student class level and admissions status and are listed in the academic calendar under priority registration at www.pdx.edu/registration/calendar. A current, detailed listing of term course offerings can be found in the online Class Schedule at www.sa.pdx.edu/soc. Detailed instructions for registration, priority registration dates, drop and add deadlines and academic calendar can be found online at www.pdx.edu/registration. The class schedule is available approximately eight weeks before the beginning of classes for winter and spring, and available in May for the following fall term.

The academic calendar contains deadlines related to adding and dropping classes, making grade changes, withdrawing from classes, and refund percentages. These deadline dates are important as they determine the extent of financial obligations incurred by registration activity and they determine if and how a course registration will be recorded on a student's transcript. Students who withdraw or drop may be entitled to certain refunds of fees paid. See the Academic Calendar at www.pdx.edu/registration/calendar.

Non-attendance

Students are responsible for dropping courses they do not wish to attend. Non-attendance does not cancel tuition charges, nor does it prevent the course and grade from appearing on the student's academic record. The University reserves the right to drop students who do not attend classes or do not have the proper prerequisites. Some academic departments enforce such a policy. If this happens, the student 1) remains responsible for any tuition charges associated with the registration, and 2) the course may be recorded permanently on the academic record, depending on when the department processes the drop. Note: Students receiving state or federal aid who receive all X, M, NP, W, or F grades for a term whose attendance during that term cannot be verified, are subject to having all their funds returned.

Academic Advising Requirements

Advising at Orientation

All new undergraduates, both freshmen and transfer students, are required to attend an orientation session where they will learn about Portland State University's academic curriculum and resources, meet with an academic adviser and be given permission to register for their first term at Portland State.

Orientation <http://www.pdx.edu/orientation/>

First-year Advising Requirement

All newly admitted undergraduates are required to meet with their assigned advisor within the first two terms of enrollment in order to register for their third term. For example, students admitted in fall term must receive advising during fall or winter terms in order to enroll for spring term or a hold will prevent them from being able to register.

First-Year Advising Requirement:
<http://www.pdx.edu/advising/first-year-mandatory-advising-requirement>

Find Your Advisor: <http://www.pdx.edu/advising/advising-locations>

Residency Classification

At PSU tuition for Oregon residents is different from that of non-residents. The rules used in determining residency seek to ensure that only bona fide Oregon residents are assessed the resident fee. The Residency Standards used to assess residence classification may be found at www.pdx.edu/registration/residency.

Only the Office of Admissions and the Residency Officer have authority to apply and interpret these rules and procedures. No other indication or determination of residency by any other institutional office, department, program, or staff represents the official institutional determination of residency.

Residency Classification Appeals

A student may appeal their residency determination by submitting a Residence Information Affidavit with the Residency Officer in the Office of the Registrar. Information about the appeal process may be found at www.pdx.edu/registration/residency-review.

Undergraduate Students Returning to PSU After an Absence

Former Portland State University students who have attended another college or university since leaving PSU and who wish to enroll after an absence must contact the

Office of the Registrar to update contact, biographical, and educational information. Official transcripts must be submitted from each institution attended since leaving PSU.

Part-Time Students/Non-Degree Students

Part-time and non-degree students are subject to the same rules as full-time and admitted students with regard to Academic Standards (academic warning, probation, dismissal) and registration deadlines (drop, add, tuition refunds, grade option changes etc.). Tuition payment is required by published deadlines.

Part-time students

Part-time status is defined as enrollment in fewer than 12 credit hours for undergraduates, and fewer than 9 credits for graduate students. Credit work taken as a part-time student is acceptable for undergraduate degrees and credentials. A fully admitted student may earn most University degrees as a part-time student. Part-time students should meet regularly with an adviser for academic planning and information on up-to-date requirements and University policies.

Non-degree/non-admit students

A student may take a maximum of 8 credits in fall, winter and spring terms, and 21 in summer without applying for formal admission. A Non-Degree Entry form is used to create a student record and provide access to the registration system. There is a one time, nonrefundable fee. Non-degree students do not qualify for financial aid nor do they receive transfer credit evaluations. Non-degree students are allowed to preregister after admitted students. Students may apply online, or obtain a Non-Degree Entry form at www.pdx.edu/admissions/apply.

Students who wish to take 9 or more credits in fall, winter, or spring terms must be formally admitted to the University. Students who plan to earn a degree at PSU should be admitted as soon as possible. Regardless of how many credits are earned while in non-degree status, there is no guarantee of admission. Formal admission is required to earn a degree.

Postbaccalaureate Status

Students seeking admission who have earned an accredited baccalaureate degree, who have not been admitted to a graduate degree program may be admitted and enroll at the postbaccalaureate level. These students are admitted to Portland State to earn a second bachelor's degree, certificate, complete pre-requisites for admission to graduate school, or take other academic credit. PSU students who have completed an undergraduate degree who wish to complete a second undergraduate degree or

take 9 or more credits during fall, winter or spring terms or more than 21 in the summer, must be admitted to postbaccalaureate status. Postbaccalaureate students are subject to the same academic policies as undergraduates.

Senior Citizen Enrollment

PSU waives tuition for courses audited by an Oregon resident 65 years of age or older if:

1. space is available after degree-seeking seeking students have registered
2. the department and instructor approve, and
3. the auditing student is a non-degree-seeking student registered for 8 or fewer credits.

One time administrative fees and other course fees for materials and online access may apply. Registration, advising and enrollment support is through the Senior Adult Learning Center (S.A.L.C.).

The tuition waiver does not apply to courses with Restricted Differential Tuition. Seniors taking classes for credit pay tuition according to the established tuition schedule.

The S.A.L.C. is partially supported by voluntary, tax-deductible contributions from seniors who participate in the program. Visit the S.A.L.C. in person at 470H Urban Center or online at <https://sites.google.com.a/pdx.edu/salc/home>. Call the Center at 503.725.4739.

Veteran Educational Benefits Certification

503-725-8380

Most programs at Portland State University are approved for the training of veterans. The Veterans Administration requires that any veteran receiving GI Bill benefits while attending PSU is required to obtain transcripts from all previously attended schools and submit them to the VA School Official for review for prior credit. Transcripts submitted from all previously attended schools to the Admission Office will be accessible to the VA School Official. It is not necessary to submit two copies. Each term, after registration, veteran students intending to use their education benefits must submit the Online Veterans Certification form. Course adds, drops, withdrawals, class cancellations and changes of program made after submitting the veterans certification form must be reported as soon as possible to the Veterans Certification Office, WH 21.

Academic Credit for Military Training

After admission, credit may be granted for some types of military service courses on the college level where

equivalency to Portland State courses can be shown, as informed by the ACE recommendations. Veterans should provide transcripts from appropriate military schools and a copy of VA form DD214 to the Veterans Certification unit of the Office of the Registrar upon application to PSU.

Satisfactory Progress Standards

In order to maintain satisfactory progress, the student veteran must complete the following credits:

Certified for:	Undergraduate:	Graduate:
Full time	12+ credits	9+ credits
Three-quarter time	9 - 11 credits	7 - 8 credits
One-half time	6 - 8 credits	5 - 6 credits

The cumulative GPA at Portland State University required to maintain satisfactory progress is 2.00. VA benefits cannot be certified unless satisfactory progress standards are maintained.

One hundred and eighty (180) credits are required to graduate with a baccalaureate degree (the total is greater in some programs). Grades of No Pass, withdrawals, Incomplete, X and audits do not count toward credits completed and may result in a VA over payment.

Last Date of Attendance Reporting

For reporting purposes, the last date of attendance is established using either 1) the actual date recorded in the registration system when a course is dropped or withdrawn from, or 2) by the 'last date attended' provided by instructors when X and NP grades are submitted.

Reporting Changes in Your Enrollment

Any changes to a student's schedule, including both adding and dropping courses, must be reported to the Veterans Certification Office immediately as these changes may have a direct effect on benefits paid by the VA. Immediate notification of these changes can prevent over payments and thus prevent future problems with the VA.

Deployment Policy

Any student with orders to report for active military duty may withdraw at any time during the term and receive a full refund. If sufficient course work has been accomplished and the instructor feels justified in granting credit for the course work completed, credit may be granted and no refund will be given.

The Office of the Registrar will work with students on a case-by-case basis to determine the best course of action. Students called to active military duty generally have the following options:

- Full withdrawal from all courses at any point during the term without academic or financial penalty, with full tuition and fee refund.

- Partial withdrawal from some (but not all) courses at any point during the term without academic or financial penalty. Students who have completed a significant portion of their course work may be eligible to receive the grades earned in courses up to that point in time and/or request incomplete grades according to existing guidelines. Tuition would be refunded for withdrawn courses.
- No withdrawal from any courses. Students who have completed a significant portion of their course work may be eligible to receive the grades earned in courses up to that point in time and/or request incomplete grades according to existing guidelines. No tuition would be refunded.

A determination on which option is best for the student will depend on the student's personal details, the time remaining in the term, the portion of coursework completed at the time of military activation, and the judgment of the instructors. Students called to active duty who want to drop courses or discuss other options, should bring a copy of their orders to the Veterans Certification Office, WH 21, and speak with a Veterans Certification Officer.

Veterans Access Choice and Accountability Act of 2014 (38 U.S.C. 3679(c))

In compliance with the Veterans Access , Choice & Accountability Act of 2014, the following individuals shall be charged the in-state rate for tuition and fees purposes:

- A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post-9/11 G.I. Bill), of title 38, United States Code, who lives in the State of Oregon while attending a school located in the State of Oregon (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 GI Bill benefits (38 U.S.C. § 3319) who lives in the State of Oregon while attending a school located in the State of Oregon (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in the State of Oregon while attending a school located in the State of Oregon (regardless of his/her formal State of residence) and enrolls in the school within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more.

- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge, release, or death described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.

work or attendances, the issue will be adjudicated by the chair of the department and then (only if needed) the dean of that school or his/her designee. The student may not place any undue burden on the instructor to provide opportunities to make up course work due to excused absences.

Missed Class Policy

Purpose: This policy is to provide students who miss class or examinations a process to make up examinations or other graded in-class work, unless it can be shown that such an accommodation would constitute an unreasonable burden on the instructor.

Rationale: Portland State University recognizes that students carry many responsibilities with them into the classroom, which both enrich their educational experience and make it more challenging. These include university-sanctioned activities in which the student serves as a representative to the university such as student congress, athletics, drama, and academic meetings.

Applicability:

- Students involved in university sanctioned or other legitimate activities, such as illness and family emergency.
- Activity program directors.
- Instructors of students who participate in university-sanctioned activities, including faculty, academic professionals, administrative staff, and teaching assistants.

Policy: It is the responsibility of each instructor to determine and publish the class attendance policy in the course syllabus and distribute to the enrolled students at the beginning of the quarter. The instructor's class attendance policy supersedes request for approved absences. It is the responsibility of the student to inform the instructor of absences due to university-sanctioned events or personal responsibilities in writing at the earliest possible opportunity. If a student must miss class due to an unforeseen event, the student must inform the instructor of the reason for the absence. Absences not cleared with an instructor before the specific class event (exam, presentation, assignment due) may require a document from the relevant authority (e.g., coach, employer). If the instructor decides that the absence is justifiable, then he/she should attempt to provide opportunities for equivalent work. When absences are approved beforehand by the student and instructor, the instructor will allow students to make up missed work and/or give an option to attain attendance points. When there is a dispute between students and instructors over the opportunity to make up

TUITION AND FEES

Student status

New and continuing students at Portland State University should plan their study programs and workloads with a knowledge of the fee and tuition schedules of the institution. The Portland State Board of Trustees reserves the right to change the schedule of tuition and fees without notice. Additionally, certain charges set by the University are also subject to change.

Most laboratory and class materials are included in the tuition and fees payment, but certain classes do require special deposit charges, surcharges, or costs to cover materials. These charges are listed in the class descriptions under the PSU Class Schedule registration page located at sa.pdx.edu/soc/.

An admitted student is defined as a resident or nonresident undergraduate, post baccalaureate, or graduate student enrolled for 1 or more credit and currently admitted to the University. Admitted students will be assessed tuition and fees based on enrollment status. Admitted students are entitled entry to PSU home athletic events (with the exception of playoff games and social events), and use of University resources, including the Library, Center for Student Health and Counseling (SHAC), and Student Recreation Center. Students taking 5 or more credits will be billed a health service fee as part of their tuition and fees. No reduction in the total charge is made to those students who do not intend to use specific resources or services. Student taking 5 or more credits are also entitled to Student Health Insurance at an additional cost. More information can be found at pdx.edu/shac/psu-student-health-insurance-information.

All non-admitted part-time students, taking 1 to 8 credits, pay tuition and fees according to the level of the course(s) in which they enroll. Courses numbered 499 or below are assessed at the undergraduate rate; courses numbered 500 and above are assessed at the graduate rate. Part-time students enrolled in 4 or less hours are not entitled to health services or insurance. Residency and admission requirements are waived for students in this category. Visit pdx.edu/registration/enrollment-status# for more information.

Tuition and fee schedules/Regular tuition schedule

All students registered for coursework on or after the first day of the term have a financial obligation to the University. For more, information please see the Terms & Conditions of Payment at [pdx.edu/student-](http://pdx.edu/student-financial/sites/www.pdx.edu.student-financial/files/Terms%26ConditionsofPayment.pdf)

[financial/sites/www.pdx.edu.student-financial/files/Terms%26ConditionsofPayment.pdf](http://pdx.edu/student-financial/sites/www.pdx.edu.student-financial/files/Terms%26ConditionsofPayment.pdf)

Students should consult the tuition and fee listing at pdx.edu/student-financial/tuition-and-fees for up-to-date information and applicable tuition and fees. Students who enroll are financially responsible for all classes and credits in which they are registered on or after the first day of the term. All classes dropped are subject to the refund schedule as outlined at pdx.edu/student-financial/refunds.

Account statements are available monthly in electronic format to currently enrolled student with a balance due. Notices are emailed to pdx.edu email addresses on the 16th of every month. All tuition and fees may be paid online, by mail, or at Cashier's located in the West Hemlock Trailer Pod. Specific deadlines are available at pdx.edu/student-financial/the-psu-payment-plan.

Tuition and fees must be paid in full each term. At the start of each term, students must pay the balance in full or opt-in to the PSU Payment Plan by the first payment due date. After the due date, students with a balance will be enrolled in the Payment Plan and incur a late fee. Additional information is available at pdx.edu/student-financial/the-psu-payment-plan. Students may access their individual financial account balances by logging onto banweb.pdx.edu.

Tuition and fee calculation (Admitted) – One credit or more

Admitted students taking one credit or more are assessed tuition and fees according to their undergraduate/graduate and residency status. The level of courses in which students enroll is immaterial.

Restricted Differential Tuition and noncredit

Enrollment in these courses may not be combined with regular PSU credit courses for fee calculations. Restricted Differential Tuition courses have fees that are assessed in addition to any other tuition paid to the University.

Senior citizen fee schedule

Senior citizens are defined as persons age 65 or older who do not wish to earn course credit. Senior citizens who are Oregon residents are authorized to attend classes on a space-available basis without payment of tuition. Charges for special materials, if any, must be paid.

Incidental and Health Service fee privileges are not provided and the University does not maintain any records of enrollment. The registration receipt may be used to obtain a library card.

Late fees

Late payment fees will be charged on all missed payments.

Other special fees

Special fees and fines are subject to change. Up-to-date information on special fees and clarification of charges can be obtained from the Student Financial Services office, West Hemlock Trailer Pod, 503-725-3440 or by visiting pdx.edu/financial-services.

Terms and Conditions

Terms and Conditions can be viewed at pdx.edu/student-financial/sites/www.pdx.edu.student-financial/files/Terms%26ConditionsofPayment.pdf

In the event of withdrawal, any refunds due are applied to the outstanding balance, and any remaining balance due remains payable. Failure to pay in full may also result in denial of registration, graduation, and transcripts as well as additional assessment for collection charges and attorney's fees.

Health Insurance

The health insurance fee is non-refundable. For specific deadlines and questions, see pdx.edu/shac/psu-student-health-insurance-information.

Graduate Assistants

Graduate assistants (GAs) are fully admitted graduate students appointed to assistantships while working toward an advanced degree. Appointments must be for at least .15 FTE per quarter. GAs are exempt from the payment of the instruction fee on the first 9 credit hours per quarter. (Employing department will provide a tuition credit.) All GAs must register for a minimum of 9 graduate credits. Hours in excess of 9 per quarter are assessed at the normal rate and may be paid at the discretion of the department. GAs are responsible for paying the Building, Health, Incidental, Rec Center and any course specific fees.

Withdrawals and fee refunds

Complete withdrawal or dropping of courses can be done through banweb.pdx.edu or in person with the Office of the Registrar in West Hemlock Trailer Pod. For tuition and fee impact, see refund schedule at pdx.edu/financial-services/tuition-refunds. Refund consideration is automatic; no special request is necessary.

Refunds of special course fees must be approved by departments. Complete withdrawal or dropping

coursework does not cancel a student's obligation to pay a student loan, balance of account, or any other financial obligation owed the University. Students with such outstanding obligations will have any refund due them applied against the obligation.

1. Official withdrawals

Students receiving financial aid who need to completely withdraw from classes during a term should officially withdraw (see the instructions in the Schedule of Classes). By using the official withdrawal procedures, students will have tuition refunds calculated by the Student Accounts Department. Regardless of "official withdraw" or Financial Aid, Student Financial Services will still calculate any possible refunds.

Students receiving financial aid who completely withdraw up to the 60 percent point of a term, will be identified. Financial aid staff will use the federal Return of Title IV Funds formula to calculate the percentage of financial aid earned versus the percentage of aid that must be returned to federal aid program accounts. In some cases, the Return of Title IV Funds calculation may take all of a student's tuition refund to repay federal aid accounts. In addition, students may be responsible for repayment of federal financial aid program funds. Funds are returned to the financial aid programs from which they were awarded, starting with the loan programs.

Students who are considering withdrawing from a term should contact staff in the Office of Admissions, Registration and Records.

2. Unofficial withdrawals

Students who stop attending without officially withdrawing from Portland State University are considered to have unofficially withdrawn. Students who unofficially withdraw may receive all X or M grades at the end of a term. A grade of X is defined as no basis for grade or non-attendance. A grade of M designates a missing grade.

Students who receive financial aid for a term and unofficially withdraw are identified at the end of each term. Each student receiving financial aid who has unofficially withdrawn must provide proof of attendance for the term(s). Students who provide proof of attendance may be subject to the Return of Title IV Funds policy. Students who fail to provide proof of attendance will have all financial aid received repaid to federal accounts (including PLUS loans) and a university accounts receivable will be established.

Refund calculations are based on total tuition and fees. Special fees are nonrefundable. Refunds are computed from the date of official withdrawal or drop; they are not based on when attendance in class ceased. Students who are delayed in withdrawal process for reasons beyond their control may petition for an earlier drop date via a Deadline Appeals petition obtained at the Registration window. Refund consideration is automatic; no special request is necessary. Action to process a refund cannot begin until after the end of the fourth week of the term.

FINANCIAL AID AND SCHOLARSHIPS

503-725-3461
askfa@pdx.edu
www.pdx.edu/finaid

The staff in the Office of Student Financial Aid and Scholarships is ready to help students understand the financial aid application process and the details of the funds they have been awarded.

Eligibility

To determine students' eligibility for assistance, the following estimated direct and indirect expenses are used to create the students' Cost of Attendance: tuition and fees, books and supplies, housing and meals, transportation and personal/miscellaneous expenses. Because the Cost of Attendance uses average amounts, it may not reflect students' actual costs.

The Office of Student Financial Aid and Scholarships provides eligible students with financial aid in the form of grants and scholarships, employment and loans. Underlying the awarding of financial aid at PSU is the nationally accepted philosophy that parents are the primary source responsible for helping their dependent students meet their educational costs. The amount of the contribution expected from parents is based on a family's financial strength as indicated by taxed and untaxed income, household size, number in college, and assets. Both dependent and independent students have a responsibility to make a reasonable contribution toward their costs from earnings and savings. Financial aid resources serve to supplement these primary resources and are intended for educational expenses only. Financial aid eligibility is calculated using a formula determined by federal law.

Students should apply annually using the Free Application for Federal Student Aid (FAFSA). The FAFSA can be filed online at www.fafsa.gov. PSU's federal school code to be used on the FAFSA is 003216.

Applications for Aid

Applications for financial aid must be submitted annually for the academic year and/or summer aid. The academic year at Portland State University begins with fall term and ends after summer term. While the Office of Student Financial Aid and Scholarships accepts FAFSA data at any time during the year, priority is given to admitted applicants who submit their FAFSA as soon as possible after October 1st, and who provide all requested

information promptly. It is recommended that students apply no later than February 1st each year. It is not necessary to wait for formal admission to the University before submitting the financial aid application. Scholarship applications are only accepted within the scholarship application open and close dates.

In order to be eligible to receive federal, state or institutional financial aid, students must remain in good academic standing as defined in the University Scholastic Standards Policy and by the Satisfactory Academic Progress (SAP) Policy requirements described at the end of the Financial Aid section. The student must be officially admitted to an aid-eligible degree or certificate program, and must be a U.S. citizen or eligible non-citizen as defined by federal regulations. Students may not receive aid beyond established limits, which include a rate of course completion, a maximum time frame, and annual aggregate dollar amounts. Information about each aid program is available at www.pdx.edu/finaid/financial-aid-programs.

Undergraduate students

Eligible undergraduate students may receive consideration for financial assistance through the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (SEOG), Federal TEACH Grant, Federal Work-Study, and Federal Direct Loan programs. Oregon resident students may also be eligible for the Oregon Opportunity Grant. Eligible parents of dependent students may borrow through the Federal Direct PLUS Loan program, described in the Educational Loans section.

Post-baccalaureate students

Eligible post-baccalaureate students may receive consideration for financial assistance through the Federal Direct Loan programs. Parents of dependent post-baccalaureate students may borrow through the Federal Direct PLUS Loan program, described in the Educational Loans section.

Graduate students

Eligible graduate students may receive consideration for financial assistance through the Federal TEACH Grant, and Federal Direct Loan programs, which include Federal Direct Unsubsidized Loans and Federal Direct Graduate PLUS Loans.

International students

International students are not eligible to participate in federal financial aid programs but are eligible for certain scholarships.

Award Notification

An Award Notification will indicate the kinds and amounts of financial aid from all sources for which the student is

eligible, along with the terms and conditions of receiving and using the funds awarded. Award amounts will be displayed on the PSU student account at www.banweb.pdx.edu. Students must review and accept the terms and conditions, then accept or decline their aid offer.

Delivery of Aid

After the financial aid award is accepted and all requirements have been completed, available financial aid will be credited to pay tuition and other billed charges for enrolled students each term. Financial aid that exceeds billed charges are then delivered to the student by the Portland State University Student Financial Services Office according to the preference that the student has established with the University. See www.pdx.edu/student-financial/hello-students for more information.

Federal Work-Study is earned on a monthly basis and paychecks are issued at the end of each month by the University's payroll office. Students may authorize direct deposit of their Federal Work-Study pay to their bank account. More information can be found at www.pdx.edu/finaid/apply.

Aid Disbursement Policy

Financial aid can be disbursed to a student's Portland State University revolving charge account up to ten days prior to the start of each term. Aid will only disburse at this time if a student's enrollment level matches their award level for the term, and there are no outstanding requirements. Our ability to disburse aid prior to the beginning of a term means that we must have a "census date" that corresponds to a student's official aid eligibility for a term. Census dates for the 2018-19 aid year and minimum enrollment requirements for the various financial aid programs can be found on the Office of Student Financial Aid and Scholarships website at www.pdx.edu/finaid/eligibility. At the census date of each term each student's final enrollment is locked. Financial aid for that term may then be adjusted based on the enrollment level at that time. When a reduction in aid is required due to a student's reduced enrollment level at the census date the reduction can create a balance due on the student's PSU account. If there is tuition refund because of dropped credits, the tuition refund will be used to reduce the balance due on the student's account.

Students applying to borrow a federal student loan must be enrolled in a minimum of half time credit hours, have demonstrated need and/or eligible costs to receive a disbursement from the federal student loan programs.

Students who have received a disbursement of a federal student loan and then reduce enrollment below half-time will be required to complete federal student loan exit counseling as outlined in the federal student loan master

promissory note. The PSU Registrar's Office will report the less than half time enrollment status to the federal student loan servicer which will result in the loss of In School Deferment status. All prior federal student loans for a borrower who does not qualify for in school deferment will enter the grace period or repayment if a grace period was previously used.

Students who regain eligibility to borrow from the federal student loan programs by increasing enrollment after the census date for any term must notify the Office of Student Financial Aid by submitting an updated enrollment plan and request a reinstatement of their federal student loan.

Any current term aid disbursed after the census date will be based on the student's enrollment on the census date, or their actual number of credits enrolled at the time of disbursement, whichever is less. Credits added after the census date cannot be used to increase aid eligibility. Retroactive aid (aid for a term that has ended prior to disbursement) must be disbursed based on completed grades/credit hours, or census date registration, whichever is less. This includes retroactive grants and loans. Grades that are considered "complete" for disbursement purposes are: A, B, C, D, F (if earned through course participation), P, I or IP.

Withdrawals—Official/Unofficial

Please see the annual Registration Guide, or visit www.pdx.edu/registration, for the university policy regarding dropping classes and tuition refunds. Students who withdraw completely during the term and are receiving federal and/or state financial aid may have a percentage of their aid reversed, based upon a formula prescribed by federal regulation. These students will have any unearned portion of their aid charged back to their PSU account, and may owe repayment directly to the U.S. Department of Education of any overpaid federal grants. Federal student aid recipients who begin attending classes and then stop attending or stop performing academic activities prior to the end of the quarter are considered by the federal government to have unofficially withdrawn. For students who receive grades of X, M, NP, W or F in all of their classes, we must determine whether they they unofficially withdrew. If University records indicate that student did begin attending classes but subsequently unofficially withdrew, the University will consider the Unofficial Withdrawal date to be the midpoint of the quarter (unless documentation exists for an earlier or later date of attendance/academic activity by the student). If no attendance or academic activity can be documented, the Unofficial Withdrawal student must repay the entire amount of aid disbursed for that term. If University records show a federal student aid recipient never attended a class or performed an academically related activity for a quarter or term, then the recipient never established eligibility for any aid funds that may have been disbursed for that quarter or term. In addition, any student aid recipient who drops all

classes or voids his/her schedule with an effective date prior to the first day of class for a quarter or term did not establish eligibility for any funds that may have been disbursed for that quarter or term. More information can be found at www.pdx.edu/finaid/withdrawing/.

Award Sources

Comprehensive details on the federal aid programs are available online at www.studentaid.gov. Students and families can also find Financial Aid consumer information and guides at www.pdx.edu/finaid.

Educational Grants

Federal Pell Grant

This federally funded grant program is designed to provide assistance to eligible undergraduate students. The federal government determines the amount of the grant with the University acting as the disbursing agent. Eligibility is determined by the Expected Family Contribution (EFC) that results from the student's FAFSA data. Students have a lifetime limit of the equivalent of 6 years of full time enrollment for Federal Pell Grant eligibility. Students apply for this grant by completing the FAFSA.

Federal Supplemental Educational Opportunity Grant (SEOG)

This is a federally funded grant program available to Federal Pell Grant recipients who have the lowest EFCs. Students apply for this grant by completing the FAFSA.

Oregon Opportunity Grant

All Oregon resident undergraduate students applying for financial aid will be considered for the Oregon Opportunity Grant awarded by the Office of Student Access and Completion. Awards are based upon financial need. Details about eligibility can be found at www.oregonstudentaid.gov. Awards are renewable for up to 12 terms provided satisfactory academic progress and financial need continue each academic year. Oregon students apply for this grant by completing the FAFSA, or, if not eligible to complete the FAFSA, the Oregon Student Aid Application (ORSAA).

Teacher Education Assistance for College and Higher Education (TEACH) Grant

This grant provides up to \$4,000 per year to graduate and undergraduate students who intend to teach full-time as a highly qualified teacher in high-need subject areas for at least four years at schools that serve students from low-income families. Graduate students are eligible for up to \$4,000 per year (\$8,000 total). Undergraduate students may receive up to \$16,000 for undergraduate study and/or up to \$8,000 for graduate study. Part-time students are

eligible, but the maximum grant will be reduced. Student apply for this grant by completing the FAFSA.

Important Notice: If TEACH Grant recipients fail to complete the four-year teaching obligation, they must repay the grant with interest under the Federal Direct Loan program.

Tuition Grants, Scholarships, and Remissions

A variety of school funded programs that provide tuition assistance to eligible students. Students apply for these institutional programs by completing the FAFSA. More information can be found at www.pdx.edu/finaid/grants.

Athletic Grants-In-Aid and Scholarships

Athletic grants-in-aid and scholarships are administered by the institution's financial aid and athletic departments. Each head coach is responsible for selecting recipients based upon eligibility and athletic ability. The National Collegiate Athletic Association (NCAA) sets forth the eligibility and financial aid requirements for Portland State University athletic teams. Any prospective PSU student should contact the coach of the desired sport about the availability of scholarships and the recruiting process. Each coach will then consider the prospective student's athletic ability, eligibility, finances available, and the need of that particular sport. An athletic grant-in-aid request is then submitted to the director of Athletics for award to the prospective student.

Educational Loans

Federal Direct Loan Programs

Portland State University participates in the Federal Direct Loan program. Under this program, funding for student loans comes from the U.S. Treasury and are disbursed by schools. When loan repayments are due, borrowers repay them directly to the federal government through a loan servicer assigned by the U.S. Department of Education to each borrower. Any subsequent loans are then serviced by the assigned loan servicer. Undergraduate and post-baccalaureate students can borrow Federal Direct Subsidized and Unsubsidized Loans; graduate students can borrow Federal Direct Unsubsidized Loans and Federal Direct Graduate PLUS Loans; and parents of dependent students can borrow Federal Direct Parent PLUS Loans.

Federal Direct Loan applicants must submit a FAFSA to have their loan eligibility determined. After their loans have been awarded, they must accept them as part of their financial aid award acceptance process, and complete Master Promissory Notes and satisfy entrance counseling requirements at www.studentloans.gov.

Federal Direct Subsidized Stafford Loan

Subsidized loan eligibility is based upon the demonstration of financial need and in conjunction with other sources of student assistance. The federal government pays the

interest on this loan while the student is enrolled at least half-time and during the six month grace period directly after a student separates from school. For students who are new borrowers after July 1, 2013, interest is paid by the federal government up to 150 percent of the published length of the academic program. The student is responsible for all interest on the loan once repayment begins or after 150 percent of the published length of the academic program is exceeded.

The federal government has set annual borrowing limits of \$3,500 for the first academic year of undergraduate study (up to 44 credits); \$4,500 for the second academic year (45–89 credits); and \$5,500 an academic year for the remaining years of undergraduate study. Not all students are eligible for the maximum loan amount.

Student borrowers must be enrolled in good standing at least half-time and have been accepted for admission to a program leading to a degree or eligible certificate. Once repayment begins, borrowers are charged the interest rates that were in effect for each year they borrowed. For current interest rates, visit the Department of Education's website at <https://studentaid.ed.gov/types/loans/interest-rates>.

Students must complete a FAFSA each year to participate in this loan program.

Federal Direct Unsubsidized Stafford Loan

This program provides unsubsidized Federal Direct Loans to undergraduate and graduate students who do not have to demonstrate federally defined need. Unsubsidized loans are not eligible for the federal government payment of interest while the student is in school. The student may make interest-only payments while in school, or the interest will be added to the loan balance. The interest rates for the Federal Direct Unsubsidized Loan are specific to each year that the student borrows. For current interest rates, visit the U. S. Department of Education's website at <https://studentaid.ed.gov/types/loans/interest-rates>. Students are responsible for the interest that accrues while in school, during their six-month grace period, and during any authorized deferment periods. The federal government has set annual borrowing limits of \$2,000–\$5,500 for the first academic year of undergraduate study (up to 44 credits); \$2,000–\$6,500 for the second academic year (45–89 credits); and \$2,000–\$7,500 an academic year for the remaining years of undergraduate study. Undergraduate borrowing limits vary based on the borrower's dependency status as indicated by the FAFSA. Graduate students may borrow up to \$20,500 per year.

Lifetime (aggregate) Federal Direct Loan Borrowing Limits by Academic Program

A student may borrow up to an aggregate limit of \$31,000 (only \$23,000 may be subsidized) as a dependent undergraduate or post baccalaureate student; \$57,500 as an independent undergraduate or post baccalaureate student (only \$23,000 of this amount may be subsidized); and

\$138,500 as a graduate or professional student (only \$65,500 of this may be subsidized). The aggregate amount for graduate students includes all previous loans borrowed as an undergraduate student.

Additional Federal Direct Unsubsidized Stafford Loan

Dependent undergraduate students whose parents' Federal Direct PLUS Loan applications are denied may be eligible for additional Federal Direct Unsubsidized Loan. Students who have earned fewer than 90 credits may borrow up to \$4,000 a year in additional funds above the maximum Federal Direct Stafford Loan annual limits (but may not exceed aggregate limits). Students who have earned 90 credits or more may borrow up to an additional \$5,000 per year (but may not exceed aggregate limits). Not all applicants will qualify for the maximums in additional funding. The Federal Direct Unsubsidized Loan may be used to replace the Expected Family Contribution, but total Federal Direct Loan (subsidized and unsubsidized) borrowing, plus other financial assistance received, cannot exceed the Cost of Attendance.

Students must complete a FAFSA each year to participate in this loan program.

Federal Direct Parent PLUS Loan (PLUS)

This program provides loans to parents of dependent undergraduate students. Parents may borrow up to an annual amount that is equal to the Cost of Attendance minus any financial assistance the student receives during the periods of enrollment. The parent borrower may use the amount of the Federal Direct PLUS to replace the Expected Family Contribution and cover unmet need for the loan period. The Federal Direct PLUS Loan is limited to parents who do not have adverse credit history or who have obtained an endorser who does not have adverse credit history. A servicer, contracted by the federal government, performs the required credit check. The interest on the Federal Direct PLUS Loan is fixed. For current interest rates, visit the U.S. Department of Education's website at <https://studentaid.ed.gov/types/loans/interest-rates>.

Parents interested in participating in the Federal Direct PLUS Loan program can apply online at www.studentloans.gov.

Students must complete a FAFSA each year for their parent to participate in this loan program.

Federal PLUS Loan for Graduate and Professional Students (Graduate PLUS)

This program is offered to credit qualified graduate students with or without financial need. Repayment begins within sixty days after the Federal Direct Graduate PLUS Loan is fully disbursed. Students who meet deferment

requirements may obtain an in-school deferment from the U.S. Department of Education. Interest is fixed for each loan, and begins to accrue at the time the first disbursement is made. For current interest rates, visit the Department of Education's website at <https://studentaid.ed.gov/types/loans/interest-rates>.

Students must complete a FAFSA each year to be eligible for Federal Direct Graduate PLUS Loans.

Private Alternative Loans

Privately funded education loans are not based on need, and no federal formula is applied to determine eligibility. The amount borrowed cannot exceed the Cost of Attendance minus other financial aid, including other loans. Interest rates and repayment terms vary by lender, and should be carefully considered when making borrowing decisions. Privately funded education loans may be used to supplement the federal programs when the cost of attendance minus the maximum federal aid still leaves unmet need. For information on alternative loans, visit the PSU website at www.pdx.edu/finaid/apply.

Loan Repayment

Repayment of Federal Direct Loans (subsidized and unsubsidized) begins after the grace period, which is six months after the student withdraws or graduates from school, or has been enrolled less than half-time.

Repayment of Federal Direct PLUS Loans begins within sixty days of the last disbursement. There are no penalties for making payments while in school or during the grace period. Students or parents may make payments at any time directly to their loan servicer.

Entrance and Exit Counseling

First-time Federal Direct Subsidized and Unsubsidized Loan and Federal Direct Graduate PLUS Loan borrowers must complete entrance counseling, which focuses on a borrower's rights and responsibilities and provides information about responsible borrowing. Shortly before graduating or enrolling in less than half time credit hours at Portland State University, borrowers must also complete student loan exit counseling. Both entrance and exit counseling are completed online at www.studentloans.gov.

Debt Management and Default Reduction

Portland State University is committed to helping students with sound financial planning and debt management. Information about loans, repayment options, and debt management strategies is available in the Office of Student Financial Aid and Scholarships at www.pdx.edu/finaid and the Student Financial Services office at www.pdx.edu/student-financial/financial-wellness-center.

Federal Work-Study

The Federal Work-Study Program is a limited, need-based program available to eligible undergraduate students. Employment opportunities are on-campus and off-campus. On-campus jobs are available with nearly every academic and administrative department. Off-campus jobs are available with government agencies and nonprofit groups; many are community service jobs that involve directly serving the community while providing a good work experience. The America Reads program, which tutors young children in public schools, is one of these programs. The Portland State University Career Center lists openings for on-campus and off-campus jobs at www.pdx.edu/careers. More information can be found at www.pdx.edu/finaid.

Scholarships

Portland State University has a number of scholarships which are administered by individual academic departments, the PSU General Scholarship committee, or special committees developed for specific scholarships. Scholarships generally are awarded on the basis of academic achievement or promise, and financial need. More information can be found at www.pdx.edu/scholarships.

Satisfactory Academic Progress and Financial Aid

To be eligible for federal, state or institutional aid students must make satisfactory progress, as defined by federal regulations, toward completion of their program of study. Portland State University monitors the student's course completion rate, which is the percentage of credits taken at PSU, or PSU plus transfer courses which have passing grades, according to the student level; grade point average for PSU courses, or PSU plus transfer courses, according to student level; and maximum time frame for PSU courses plus accepted transfer credits. The maximum time frame for undergraduate students is 270 attempted credits. The maximum time frame for post-baccalaureate students is 90 attempted credits. The maximum time frame for graduate students is established according to the student's degree or program.

Repeated coursework: students may only receive aid once for repeating a previously passed class; students may receive aid for multiple repeats of failed classes as long as they maintain compliance with satisfactory academic progress requirements.

Multiple withdraws: financial aid recipients who withdraw from all their classes, or who receive all non-passing grades twice within the school year, will have their financial aid eligibility suspended.

Graduate students must take courses at the appropriate level; at least 67% of all credits enrolled in during each academic year must be graduate level courses.

Students who do not meet all requirements of the satisfactory academic progress policy during a term will be placed on Financial Aid Warning; students who do not meet all requirements of the satisfactory academic progress policy during a second term will have their eligibility for financial aid suspended. Students whose eligibility is suspended may submit a written appeal. Students who appeal successfully will be placed on Financial Aid Probation and may need to submit and follow an academic plan.

The full policy is online at www.pdx.edu/finaid/eligibility. Printed copies can be found at the Office of Student Financial Aid and Scholarships.

UNDERGRADUATE STUDIES

Shelly Chabon
Vice Provost for Academic Personnel and Dean of
Interdisciplinary General Education
650 Market Center Building
503-725-2262
www.pdx.edu/oa

Undergraduate Programs

Portland State University is committed to providing its students with maximum opportunities for intellectual and creative development within the context of its urban and international mission. Students earning a baccalaureate degree will complete a rigorous program of study leading to mastery of the chosen field of study at the undergraduate level. In addition, Portland State University is committed to providing the foundation for continued learning after completing the baccalaureate degree. This foundation includes the capacity to engage in inquiry and critical thinking, to use various forms of communication for learning and expression, to gain an awareness of the broader human experience and its environment (local, national, and international), along with an ability to appreciate the responsibilities of individuals to themselves, each other, and community.

Undergraduate students at Portland State University may work toward a Bachelor of Arts, a Bachelor of Science, a Bachelor of Fine Arts, or a Bachelor of Music degree with one or more majors. See the Programs of Study (p. 3) chart for majors leading to a baccalaureate degree.

Students working toward a bachelor's degree must complete the (1) University requirements, (2) University Studies (general education) requirement, (3) University Writing Requirement, (4) Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Science requirements, (5) requirements for a major, and (6) Foreign Language competency if admitted with a high school foreign language deficiency. Students majoring in Liberal Studies or completing the Urban Honors Program do not need to meet the University Studies general education requirement. Specific requirements for a baccalaureate degree are detailed here. Students pursuing supplementary programs must complete additional requirements as specified in the curricula of these programs.

Students working toward a bachelor's degree may wish to supplement their major coursework with:

A **certificate program** which is an approved academic award given in conjunction with the satisfactory completion of a program of instruction, signifying a standard of knowledge in a specific subject. Certificate types vary, with some available as part of a baccalaureate

degree program, others available in non-degree status, and others available to post-baccalaureate students.

A **minor** is an optional, undergraduate credential, comprised of a formally defined set of courses in a declared secondary subject area/field of study, distinct from and outside of the degree major.

For a list of available certificates and minors, see Program of Study (p. 3).

A **nondegree preprofessional program** in chiropractic, medical laboratory science, dental hygiene, dentistry, law, medicine, naturopathic medicine, nursing, occupational therapy, optometry, pharmacy, physical therapy, physician assistant, radiation therapy, teacher education, and veterinary medicine.

Intensive English Language Program (IELP)

UCB Suite 400
 503-725-4088 | 503-725-2311 Fax
esl@pdx.edu

Mailing Address:
 Intensive English Language Program
 Portland State University
 PO Box 751
 Portland, OR 97207-0751

Street Address:
 Intensive English Language Program
 527 SW Hall Street
 University Center Building, Suite 400
 Portland, OR 97201

PROGRAM INFORMATION

The Intensive English Language Program (IELP) offers courses designed to develop students' competence in listening, speaking, reading, and writing. The IELP offers a wide variety of courses to help students meet their goals. The IELP Intensive Program is offered throughout the regular academic year and summer. There are two program options: (1) for students that desire academic preparation for undergraduate studies and (2) for students that desire academic preparation for graduate studies.

(1) Academic Preparation for Undergraduate Study –
 In this program there are six levels from Level 0 (Pre-Entry) for low beginners to Level 5 for advanced students. New students must take the IELP placement exams given by the program the week prior to the new term. Students placed in Level 0 (Pre-Entry) must successfully pass that level before taking courses in Levels 1-5. Full-time students in the Level 0 register for 22 credits per term. Full-time students in Levels 1-5 register for 18 - 20 credits per term. For more information on the Intensive Program,

see our IELP website: <http://www.pdx.edu/esl/program-options>.

(2) Academic Preparation for Graduate Study – This program has one level. Students who plan to enter the Graduate Preparation Program must complete Level 4 and Level 5 in the Academic Preparation for Undergraduate Study Program with passing grades before entering the Academic Preparation for Graduate Study Program. For students who are in both levels 4 and 5, movement to one or more graduate preparation track courses may take place before all level 5 classes are completed, based upon review of the students' overall academic record.

Accelerated Entry to Academic Preparation Program for Graduate Study

Students planning to pursue graduate study and planning to enroll in Academic Preparation for Graduate Study (AP-G) courses may request to move from level 4 directly into AP-G courses if they meet the following requirements:

- Complete EACH level 4 class with a 3.0 GPA in each class
- Earn an overall 3.0 GPA in the program (cumulative IELP GPA). Students who wish to enter the accelerated graduate track option must meet with their IELP academic advisor to determine their eligibility.
-

Students who elect to enter the Accelerated Graduate Track retain the option to take level 5 classes in the Academic Preparation for Undergraduate Study Program at the same time or upon completion of the Graduate Track classes.

ADMISSION REQUIREMENTS

No IELP application is required for students admitted to Portland State University. New PSU students should contact the IELP about placement and registration prior to the start of the term. Non-PSU students who wish to enroll in the IELP may apply directly to the IELP by submitting an application form and supporting documents to ielpadm@pdx.edu. All new students must take a placement test in English administered by the IELP. Placement into courses will be based on these test results as well as on other standardized test scores if available.

Students admitted to PSU without an ESL restriction may elect to take Academic Preparation courses in Levels 4 and 5. Up to 24 credits in the Academic Preparation programs may be applied towards an undergraduate degree.

For information and application materials, contact the IELP: <http://www.pdx.edu/esl/contact>

Military Science

2121 SW 4th Ave., Unitus Building
503-725-3512
<http://www.armygold.pdx.edu>

The department of military science entails the study of techniques, psychology, and practice used with the training of officers and soldiers. Military Science encompasses six major branches as follows:

Military Organizations – Develops optimal methods for the administration and organization of military units, as well as the military as a whole.

Military Education and Training – Studies the methodology and practices involved in training soldiers, NCOs (non-commissioned officers, i.e. sergeants), and officers.

Military History – Military activity has been a constant process over thousands of years, and the essential tactics, strategy, and goals of military operations have been unchanging throughout history.

Military Geography – Military geography encompasses much more than protestation to take the high ground, it studies the obvious, the geography of theatres, also the additional characteristics of politics, economics, and other natural features of locations.

Military Technology and Equipment – Military technology is not just the study of various technologies and applicable physical sciences used to increase military power. It may also extend to the study of production methods of military equipment, and ways to improve performance and reduce material and/or technological requirements for its production.

Military Strategy and Doctrine – Military strategy is in many ways the centerpiece of military science. It studies the specifics of combat, and attempts to reduce the many factors to a set of principles that govern all interactions of the field of battle. Portland State University and the Oregon Army National Guard offer a unique leadership development program specifically for the civilian career-minded student. This program, Guard Officer Leadership Development or GOLD/ROTC provides motivated young men and women with exciting and valuable instruction in a variety of areas such as decision-making, goal-setting, team-building, and small-group leadership. Classroom and outdoor activities are designed to physically, mentally, and emotionally challenge you, build your self-confidence, and develop your leadership skills. If you qualify, you could earn a commission as an Army officer upon graduation in the Oregon Army National Guard.

Program

GOLD/ROTC is a four-year program that provides on-campus military science instruction in two parts: the Basic Course and the Advanced Course. For this training, you are paid as a Sergeant (E-5). Both Courses are fully accredited and applicable towards fulfilling academic requirements for a baccalaureate degree.

Basic Course

The Basic Course is comprised of 100 and 200-level lower division courses, is usually taken in your freshman and sophomore years, and is open to any student enrolled at PSU. Your participation in this course is completely voluntary and requires no military commitment. Instruction is oriented on adventurous outdoor activities that give you insight into the military service, basic soldiering, and leadership.

You also get to learn about the citizen-soldier and his or her social contributions, duties, and responsibilities. Through your personal involvement, you get to see whether this role appeals to you.

Advanced Course

The Advanced Course is a two-year pre-commissioning phase that integrates classroom instruction, military training, and practical experience to progressively develop your leader skills, qualities, and character. Further leadership development will occur in 300/400 level Military Science and Army Physical Fitness classes. We will continuously assess your performance and provide you the essential feedback and reinforcement you need to become a leader in business, the community, and the Army National Guard.

Eligibility For The Basic Course. This course is open to any student enrolled at PSU.

Eligibility For The Advanced Course. You must meet these requirements to be accepted into the Advanced Course:

- Be between 18 and 30 years old. Age waiver may be granted up to age 35 by the Adjutant General or Commanding General of the State or Territory you reside in. (NGB-ARH Memo #06-11)
- Be a U.S. citizen.
- Be a member of the Army National Guard, Army Reserves or completed MS 100/200 level classes or attended LTC (Leadership Training Course) during the summer of your sophomore year.
- Be in good health as evidenced by a current Chapter II or DODMERB physical.
- Be of good moral character and behavior.
- If you are currently in the Army National Guard or Reserves you do not have to participate in the Basic Course to enter the Advanced Course, but it is encouraged.

Assessment

Portland State University assesses undergraduate student learning and engagement related to the eight Undergraduate Campus-Wide Learning Outcomes:

Communication; Creative and Critical Thinking; Disciplinary and/or Professional Expertise; Diversity; Engagement; Ethics and Social Responsibility; Internationalization; and Sustainability through a variety of activities.

Assessment of student learning and engagement occurs at classroom, departmental and institutional levels. Your participation in assessment matters, as results are used to improve teaching and learning, program structure, course content, and the overall student experience at Portland State University.

The types of assessments students might engage include standardized tests, placement tests, surveys, course evaluations, portfolios of student work, group or individual interviews, or classroom research, to name a few. Incoming students to PSU may be required to take a writing assessment and, based on the results of that assessment, take an assigned writing course.

Academic standing policy

Undergraduate, Postbaccalaureate and Non-Degree Seeking Students

The faculty Scholastic Standards Committee (SSC) has the authority to place on Academic Warning, Probation or Dismissal any student according to the following standards:

Academic Warning

Any student with 12 or more attempted credits (including PSU and transfer work) whose cumulative PSU GPA falls below 2.00 will be placed on academic warning. A registration hold will also be applied to the student record until completion of a mandatory intervention facilitated by advising and career services. Students on academic warning are restricted to registering for 13 or fewer credits per term.

Academic Probation

Students on academic warning will be placed on academic probation if they do not meet at least one of the following requirements:

1. Raise the cumulative PSU GPA to 2.00, thereby returning to good standing
or
2. Earn a GPA for the given term of 2.25 or above, thereby remaining on academic warning and subject to the same requirements in the next term.

Students on academic probation are restricted to registering for 13 or fewer credits per term.

Academic Dismissal

Students on academic probation will be dismissed if they do not meet at least one of the following requirements:

1. Raise the cumulative PSU GPA to 2.00, thereby returning to good standing
or
2. Earn a GPA for the given term of 2.25 or above, thereby remaining on academic probation and subject to the same requirements for the next term.

Notes

1. Grade changes or removal of Incomplete grades do not change academic standing status.
2. Academic standing status in the current term may be changed by engaging the repeat policy, however repeating courses will not retroactively change the status of a past term.
3. Students who are academically dismissed from PSU are not permitted to register either full-time or part-time (including 1-8 credits)
4. When evaluating undergraduate academic standing, only PSU undergraduate credit is considered.
5. Students on academic warning or academic probation who receive only grades of I, X and/or NP will lose academic standing.

Reinstatement

A student who is dismissed may be reinstated in one of two ways. One is to petition and be approved for reinstatement by the Scholastic Standards Committee. Petitions for current term reinstatement must be returned to the Office of the Registrar prior to the beginning of the term for a timely decision. Alternately, conferral of an accredited transferable Associate's or Bachelor's degree earned subsequent to the dismissal from PSU, will constitute automatic reinstatement to the University. An official transcript with the degree posted must be presented to the Office of the Registrar. Reinstated students are given probation status.

Graduate Students and Postbaccalaureate Graduate Students

Graduate Academic Standing is administered by the Office of Graduate Studies. See the Graduate Studies section of this *Bulletin* (p. 41) for policy details.

Credit for Prior Learning (CPL)

Portland State University recognizes that adults entering or returning to college bring with them a wide variety of prior learning experiences including work, travel, volunteering, activities in professional organizations, or self-study. CPL

allows qualified undergraduate students to earn credit for college-level learning outside of the classroom.

PSU offers four types of CPL credit:

1. PSU Departmental Challenge Exam
2. Prior Learning Portfolio
3. College Level Examination Program (CLEP)
4. Military Credit

CPL Academic Policies

1. Student Eligibility:
 - a. PSU Challenge Exam and Prior Learning Portfolio review requires students to be formally admitted to PSU as an undergraduate and to be enrolled in or have completed one PSU course. Students enrolling in Prior Learning Portfolio must also be in Academic Good Standing.
 - b. CLEP and Military Credit is evaluated and awarded as transfer credit at the time a student is formally admitted to PSU, prior to matriculation/enrollment .
2. Grading: CPL credit is limited to Pass-only grading and, as such, will not have a GPA effect. A "No Pass" assessment is not recorded on the PSU transcript and will have no impact on the GPA calculation.
3. Pass/No Pass Limit: PSU Exam and Portfolio credit are included in the calculation of the 45-hour limit on Pass credit. CLEP and Military Credit are exempt from the 45 P/NP limit.
4. Transcripts:
 - a. Credit earned by PSU Challenge Exam and Prior Learning Portfolio will be included and appear as institutional credit on the PSU official transcript. It will be identified as CPL credit.
 - b. CLEP and Military Credit awards are not included on the PSU Official Transcript. CLEP and Military Credit awards are treated like transfer credit and may apply towards PSU degree requirements and appear on the PSU Degree Audit.
5. CPL Limits: No more than 45 credits of PSU Challenge Exam and Prior Learning Portfolio credit can apply toward a PSU degree. CPL can be used to complete degree requirements unless it is restricted in a major by a particular academic unit.
6. Repeat Policy: CPL is not eligible for the PSU Repeat Policy. Earning CPL credit for a course in which a student had previously earned a D or F does not remove the prior grade from the GPA calculation.
7. Residency Requirement: CPL credit will not count toward the PSU credits in residence requirement.

- | | | |
|---|---|------|
| 8. University Studies Placement: CLEP and Military Credit will be combined with the transfer credit to establish placement into the University Studies general education program. PSU Exam and Portfolio credit will not be used to establish placement. | Minimum number of upper-division credits (300 and 400-level) | 72 |
| 9. CPL can be awarded in courses that have been approved by academic departments. Not all courses in all departments are open to challenge. Each academic unit decides which of its courses are available to undergraduates for CPL credit. No courses numbered 199, 299, 399, or 401 to 410 inclusive are eligible for CPL credit. | Minimum cumulative grade point average
(2.00 on all PSU work and 2.00 on all courses no matter where taken in major field of study. Some departments require GPA higher than 2.00 in major.) | 2.00 |
| 10. Credit earned by CPL may not be received in a course which: | | |
| a. Duplicates credit previously earned by a student, or | | |
| b. Is more elementary, as determined by departmental, college, or school regulations, than a course in which the student has already received credit. | Residence Credit: 45 of the final 60, or 165 total must be taken at PSU. (Restrictions: PSU Exam credit and Credit for Prior Learning portfolio credit are excluded. At least 25 of the last 45 credits must be for differentiated grades.) | |
| 11. Department permission is required in order to re-attempt CPL credit for the same course, after a non-passing prior attempt. | | |

Maximum number of credits transferred from regionally accredited two-year institutions	124
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Undergraduate Degree and Credential Requirements

To earn a baccalaureate degree a student must complete (1) University requirements, (2) University Studies - General Education requirements, (3) the Writing Requirement, (4) specific requirements for the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Science Degree, (5) requirements for a major, and (6) Foreign Language competency if admitted with a High School Foreign Language Deficiency.

Students bear final responsibility for ensuring that the courses taken are applicable toward satisfying their degree requirements.

1. General University Requirements: GPA, Credits and Limitations

Minimum number of credits, including lower-division plus upper-division (some programs require more than 180 credits)	180
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Maximum number of correspondence credits	60
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Maximum number of credits graded P (Pass) that may apply to a degree (This does not include credits with Pass grades accepted in transfer from institutions that do not offer differentiated grades.)	45
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Maximum number of Credit for Prior Learning credits that may apply to a degree	45
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Maximum number of Physical Education activity credits that may apply to a degree	12
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Maximum number of Cooperative Education credits that may apply to a degree	12
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Maximum number of English as a Second Language (ESL) credits that may apply to a degree
(Note: to apply, courses must be at the advanced or academic college-level of study, which is defined as equivalent to PSU "level 4" courses or above.)

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2. University Studies (General Education Requirement)

This requirement does not apply to Liberal Studies majors or students formally admitted to the University Honors College. Honors College general education requirements are satisfied with specific Honors courses.)

The purpose of the general education program at Portland State University is to enable students to acquire and develop the knowledge, abilities, and attitudes which form a foundation for lifelong learning. This foundation includes the capacity and the propensity to engage in inquiry and critical thinking, to use various forms of communication for learning and expression, to gain an awareness of the broader human experience and its environment, and to appreciate the responsibilities of persons to themselves, to each other, and to community.

To accomplish this purpose all freshmen entering with fewer than 30 prior university credits are required to complete the following program (See www.pdx.edu/unst/ for course descriptions and capstone offerings):

- **Freshman Inquiry** (15 credits). One year-long course which must be taken in sequence (UnSt 100-level).
- **Sophomore Inquiry** (12 credits). Students are required to choose three Sophomore Inquiry courses, each linked to a different University Studies cluster for a total of 12 credits UnSt 200-level).
- **Upper-Division Cluster** (Junior and Senior Years) (12 credits). Students are required to select three courses (for a total of 12 credits) from one upper-division cluster (300 to 400-level courses designated with a U) which is directly linked to one of the three Sophomore Inquiry classes previously taken.
- **Senior Capstone** (6 credits). This 6-credit capstone course (UnSt 421) is the culminating general education course for seniors. Students join an interdisciplinary team, develop a strategy to address a problem or concern in the community, and implement this strategy over one, two, or three quarters of work.

Note: Students may not use any course to satisfy both cluster and major requirements. Cluster courses must be taken outside of the major. This includes courses that might be cross-listed elsewhere with the student's major prefix.

Attention transfer students:

The following placement within University Studies is based on total credits accepted at term of admission to PSU.

- Transfer students who have earned fewer than 30 quarter credits of transfer work are required to complete all of the University Studies program requirements, including the entire sequence of Freshman Inquiry.
- Transfer students who have earned 30-89 quarter credits of transfer work are required to complete the University Studies program beginning with Sophomore Inquiry as follows: 30-59 credits, three courses; 60-74 credits, two courses; and 75-89 credits, one course. (The upper-division cluster must be linked to one of these Sophomore Inquiry classes.)
- Transfer students who have earned 90 or more credits of transfer work are required to complete the University Studies program beginning with an Upper-Division Cluster. It is recommended that they complete the Sophomore Inquiry course directly linked to the Upper-Division Cluster they choose.

3. University Writing Requirement – 2 college-level composition courses

Students who started college in fall 2012 or later must complete 2 college-level composition courses or their approved equivalents for their baccalaureate degree requirements. The requirement may be satisfied in one of the following ways:

- Students admitted to PSU as freshmen (0-29 transfer credits) meet the requirement by completing the first two years of University Studies or Urban Honors College (both approved equivalents of composition courses);
- Students admitted to PSU having earned 30-89 transfer credits meet the requirement with Wr 121 (required for transfer admission) and the requisite number of Sophomore Inquiry courses determined by placement into University Studies or HON 201, 202, 203;
- Students admitted having earned 90 or more transfer credits have four options for meeting the requirement:
 - Transfer into PSU with an approved equivalent of Wr 121 plus one approved composition course for which Wr 121 (or its approved equivalent) is a pre-requisite;

- Transfer into PSU with two approved composition courses for which Wr 121 (or its approved equivalent) is a pre-requisite;
- Complete Wr 121 plus an additional course from the following PSU course list: Wr 200, Wr 222, Wr 227, Wr 228, Wr 300, Wr 301, Wr 323, Wr 327, Wr 333, Wr 394, Wr 400, Wr 420 or a 4-credit Writing Intensive Course (WIC). Composition writing courses transferred into PSU may also be considered.
- Complete any two courses from the PSU list above.

This requirement became effective beginning with the 2012-13 catalog. Students eligible for earlier catalogs may speak to an adviser about whether to use an older catalog.

For information about Writing Intensive Courses or for questions about approved equivalents for composition courses, please email the English Department at eng@pdx.edu.

4. Requirements for Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science Degrees

Courses taken to satisfy BA/BS requirements may also be used to meet any other requirements if they conform to the regular qualification for those requirements.

- **For the Bachelor of Arts degree:** Students must complete 28 credits to include a minimum of 12 credits in the arts and letters academic distribution area, with a minimum of 4 credits in the area of fine and performing arts; a minimum of 12 credits in the science and/or social science distribution areas, with a minimum of 4 credits in the science distribution area; and 4 credits in a foreign language numbered 203 or higher (conducted in the target language). See foreign language requirements listed below.
 - **Foreign language requirement:** The B.A. language requirement is not defined in credits, but in terms of competence: for graduation, a student must demonstrate competence equivalent to that normally attained after two years of college study. Students with no previous knowledge of a foreign language are advised to complete two years in a language.
 - Students who already possess sufficient competence (or who wish to prepare themselves outside of formal classes) may meet the B.A. language requirement in any of the following ways: (1) Completion in any foreign language of 203 or its equivalent with a passing grade; (2) completion in any foreign language of a course that has 203 or higher as a prerequisite; (3) Demonstration of proficiency in a foreign language equivalent to that attained after two years of college study. There are three ways to demonstrate equivalency proficiency: a) in French, German, or Spanish, by passing the CLEP examination with a score high enough for second-year level credit (see <http://www.pdx.edu/admissions/college-level-exam-program>; b) in other languages regularly taught by the Department of World Languages and Literatures, by passing a departmental examination with a score high enough for second-year level credit; c) in any language for which the Department of World Languages and Literatures has a qualified tester, by passing a non-credit departmental examination. English satisfies the B.A. language requirement for students whose official transcripts demonstrate that their secondary education was completed in a language other than English. Such students may not enroll in first- or second-year courses in the language in which they received their secondary education.
- **For the Bachelor of Fine Arts degree:** Students must complete the specific program as prescribed by the department.
- **For the Bachelor of Music degree:** Students must complete the specific program as prescribed by the Department of Music.
- **For the Bachelor of Science degree:** Students must complete 28 credits to include a minimum of 12 credits in the Science academic distribution area (excluding mathematical sciences/statistics) a minimum of 12 credits in the Arts and Letters and/or the Social Sciences distribution areas, and 4 credits in mathematical sciences/statistics. A minimum of 8 of the 12 credits in the Science distribution area must be in coursework with its integrated or associated laboratory or field work. Unless otherwise specified, only courses within the Science distribution area that have an explicit indication of lab or field work as part of the catalog description will satisfy the B.S. degree requirement for lab/field work.

Academic Distribution Areas

- The Arts and Letters academic distribution area consists of undergraduate courses from the following: Applied Linguistics, Architecture, Art, Arts and Letters, Black Studies (BSt 221, BSt 351U, BSt 352U, BSt 353U, BSt 421, BSt 424U, BSt 425U, BSt 426U, BSt 427U only), Communication, Conflict Resolution, Dance, English, Film, Judaic Studies (JSt 325, JSt 431, JSt 435 only), Music, Philosophy, Speech and Hearing Sciences, Systems Science (SySc 421 only), Theater Arts, World Languages and Literatures, Writing.
- The Science academic distribution area consists of undergraduate courses from the following areas: Anthropology (Anth 101, Anth 370/370L, Anth 372,

Anth 373, Anth 376, Anth 379, Anth 471, Anth 472, Anth 477, Anth 478, Anth 479 only), Biology, Chemistry, Environmental Science and Management, Geography (Geog 210, Geog 310U, Geog 311U, Geog 312U, Geog 313U, Geog 314U, Geog 320, Geog 322U, Geog 333U, Geog 340U, Geog 380U, Geog 407, Geog 413, Geog 414, Geog 415, Geog 418, Geog 420, Geog 475, Geog 480, Geog 481, Geog 482, Geog 484, Geog 485, Geog 488, Geog 489, Geog 490, Geog 492 - Geog 497 only), Geology, Mathematics/Statistics, Physics, Science, Systems Science (SySc 330, SySc 332, SySc 334, SySc 431, SySc 452 only).

- The Social Science academic distribution area consists of undergraduate courses from the following areas: Anthropology (except Anth 101, Anth 370/370L, Anth 372, Anth 373, Anth 376, Anth 379, Anth 471, Anth 472, Anth 477, Anth 478, Anth 479), Black Studies (except BSt 221, BSt 351U, BSt 352U, BSt 353U, BSt 421, BSt 424U, BSt 425U, BSt 426U, BSt 427U), Chicano/Latino Studies, Child and Family Studies, Criminology & Criminal Justice, Economics, Geography (except Geog 210, Geog 310U, Geog 311U, Geog 312U, Geog 313U, Geog 314U, Geog 320, Geog 322U, Geog 333U, Geog 340U, Geog 380U, Geog 407, Geog 413, Geog 414, Geog 415, Geog 418, Geog 420, Geog 475, Geog 480, Geog 481, Geog 482, Geog 484, Geog 485, Geog 488, Geog 489, Geog 490, Geog 492 - Geog 497), History, International Studies, Judaic Studies (except JSt 325, JSt 431, JSt 435), Native American Studies, Political Science, Psychology, Social Science, Sociology, Systems Science (SySc 336, SySc 338, SySc 350, SySc 413 only), Urban Studies and Planning, Women's Studies.

5. Major Requirements

Students must complete the requirements for at least one major field of study. Descriptions for major program requirements can be found in the individual department sections of this catalog.

6. High School Foreign Language Admission Deficiency

Students graduating from high school in 1997 or later who did not meet the Second Language Proficiency requirement at the time of admission must complete the requirement prior to earning an undergraduate degree at Portland State University.

Second Language Proficiency Requirements (2 units) - includes demonstrated proficiency equivalent to two years of the same high school-level second language. Students who did not meet this requirement in high school may demonstrate proficiency by meeting one of the following options:

- Pass with a D- or better two quarters or two semesters of college-level second language

- Pass an approved proficiency exam
- American Sign Language qualifies as a second language.

For a complete list of proficiency options available for meeting the second language requirements, please contact the University's Office of Admissions.

Catalog Eligibility and Degree Requirements

To earn an undergraduate degree, a student must meet the degree and major requirements published in an annual PSU Bulletin (catalog) for which the student is eligible and which is still valid at the time of the student's graduation. This applies to a first bachelor's degree, subsequent bachelor's degrees and to certificates earned by undergraduate and postbaccalaureate students.

Catalog eligibility rules

Students may select the requirements of the PSU catalog in effect during the year they first enrolled at any accredited, postsecondary institution, or any subsequent year, regardless of whether the student was enrolled or not, as long as the student graduates within seven years of the year selected.

Seven-year rule

The requirements in any Bulletin (catalog) are valid for seven years. Specifically, a catalog is valid through the summer term following the seventh academic year after issuance of the catalog. Example: The 2018-19 catalog requirements will expire at the end of summer term 2025.

Double Major

Double Major

Students with two or more majors must identify which major is considered the primary/first major. The primary/first major will determine how the University Studies general education requirements are applied. Specifically, primary/first major courses cannot apply to University Studies clusters. (For this purpose, major courses include any course with a subject code that matches the major, plus any specific course required or used to meet major requirements, even if from another department.) Also, a few majors require an additional, specific Sophomore Inquiry course. If double majoring, the liberal studies major (which does not require University Studies general education requirements) cannot serve as the primary/first major. In this case the other major will be considered the primary/first major and the University Studies cluster restrictions will apply accordingly.

Concurrent Degrees

Students may earn two degrees at the same time, as long as the degrees are different and the majors are different, by 1) meeting the requirements in the specific Bachelor's degree (i.e. BA, BS, BFA, BM, et. al.) and in each major, 2) earning 36 credits beyond the 180 minimum required for a single Bachelor's degree (i.e. 216 credits total), and 3) meeting the PSU Residence Credit requirement by completing 45 of the last 60 or 165 of the total 216 at PSU.

Minors

A Minor is an optional, undergraduate credential. It is a formal, defined set of courses in a declared secondary subject area/field of study, distinct from and outside of the student's degree major, in which knowledge is gained in a coherent pattern of courses. A minor is intended to supplement the major field of study, and as part of a baccalaureate degree program may only be awarded at the same time the baccalaureate degree is awarded. A minor is posted to the official transcript, but does not print on the diploma.

Undergraduate Certificates

Undergraduate Certificates

A certificate is an approved academic award given in conjunction with the satisfactory completion of a program of instruction, signifying a standard of knowledge in a specific subject. Certificates are posted to the official transcript and documented on a separate diploma.

In addition to meeting the specific course requirements of the certificate, students must meet the Residency Requirement: a minimum of 16 credits or 3/4 of the credits required for the certificate, whichever is higher, must be earned at Portland State University.

Three types of certificates are available at the undergraduate level, each differing in terms of the minimum required admission status and in the timing of when the certificate is awarded, as described below. Individual certificates may have unique pre-requisites or program admission requirements defined by the academic departments.

Undergraduate Certificate Awarded with Baccalaureate

An Undergraduate Certificate Awarded with Baccalaureate is intended to supplement the major field of study and is an optional credential. Undergraduate Admission is required, and as part of a baccalaureate degree program, this type of

certificate may only be awarded at the same time the baccalaureate degree is awarded. This certificate type may also be earned by students admitted and matriculated into Postbaccalaureate and Graduate status.

Undergraduate Certificate Awarded at Completion

An Undergraduate Certificate Awarded at Completion may supplement the major field of study or be awarded as an independent credential prior to completion of the bachelor's degree. This certificate type may also be earned by students admitted and matriculated into Postbaccalaureate and Graduate status.

Certificate – Admission Not Required

Formal undergraduate admission is not required. Students may earn the certificate in the non-degree enrollment status. Financial Aid is not available to students enrolled in the non-degree status. This certificate type may also be earned by students admitted and matriculated into Undergraduate, Postbaccalaureate or Graduate status.

Postbaccalaureate Credential Requirements

Second baccalaureate degree

A candidate for a second baccalaureate degree must complete the following:

1. Residence credit after earning first degree: if the first degree was from Portland State University, 36 credits; if the first degree was from another college or university accredited by a recognized regional association, 45 credits. Restriction: At least 25 of the 45 credits must be for differentiated grades (A-F).
2. Bachelor of Arts degree: if the first degree was not a B.A., students must complete 28 credits to include:
 - a. 12 credits in arts and letters distribution area with minimum of 4 in fine and performing arts
 - b. 12 credits in science and/or social science distribution area with minimum of 4 in science
 - c. Four credits in a foreign language numbered 203 or higher.
3. Bachelor of Music degree: if the first degree was not a B.M., students must complete program in music and applied music as prescribed by the Department of Music
4. Bachelor of Science degree: if the first degree was not a B.S., students must complete 28 credits to include:

- a. Minimum 12 credits science including 8 with lab (excluding math/statistics)
 - b. Minimum 12 credits arts and letters and/or social science
 - c. Minimum 4 credits math/statistics
5. Bachelor of Fine Arts degree: if the first degree was not a B.F.A. students must complete program as prescribed by the department.
 6. Requirements for a major: Courses taken as a postbaccalaureate student or as part of the first degree program count toward the major. Students do not need to meet the general education requirement.
 7. Admitted postbaccalaureate students must maintain a cumulative GPA of 2.00 on all work taken at PSU. Failure to do so will result in academic warning, probation, or dismissal.
 8. Postbaccalaureate students who do not hold a degree from a university in the U.S., English-speaking Canada, Great Britain, Ireland, Australia, or New Zealand must satisfy the Wr 323 requirements before graduation from PSU.

Postbaccalaureate Certificates

Postbaccalaureate Certificates are approved academic awards given in conjunction with the satisfactory completion of a program of instruction, signifying a standard of knowledge in a specific subject. The curriculum is designed for students to complete after they have already earned a bachelor's degree. To be eligible to earn the certificate, the student must be admitted and matriculated into postbaccalaureate or graduate status. A Postbaccalaureate Certificate is posted to the official transcript and documented on a separate diploma.

In addition to meeting the specific course requirements of the certificate, students must:

- Hold a previously earned baccalaureate degree.
- Meet the Residency Requirement: a minimum of 16 credits or 3/4 of the credits required for the certificate, whichever is higher, must be earned at Portland State University.
- Students who do not hold a degree from a university in the U.S., English-speaking Canada, Great Britain, Ireland, Australia, or New Zealand must satisfy the Wr 323 requirement.

Grading System for Undergraduates

The undergraduate grading system applies only to undergraduate courses.

The undergraduate grading system gives students the choice of taking certain courses designated by departments

for either differentiated (A, B, C, D, F) or undifferentiated (pass or no pass) grades.

The following grading scale is employed at the undergraduate level:

A	= 4.00	B-	= 2.67	D+	= 1.33
A-	= 3.67	C+	= 2.33	D	= 1.00
B+	= 3.33	C	= 2.00	D-	= 0.67
B	= 3.00	C-	= 1.67	F	= 0.00

Evaluation of a student's performance is determined by the following grades:

A—Excellent
 B—Good
 C—Satisfactory
 D—Inferior
 F—Failure
 P—Pass
 NP—No pass

The following marks are also used:

I—Incomplete
 IP—In Progress
 W—Withdrawal
 AU—Audit
 X—Non-attendance and No basis for grade
 M—Missing grade/No grade received

Pass/No Pass Grading Options

The online *Class Schedule* identifies courses as offered under the differentiated or undifferentiated option. Students electing the undifferentiated grade option when it is offered are graded pass or no pass. In the majority of instances, a pass grade is equated to a C- grade or better (some departments accept only C or better). Please check with the department. Pass/No Pass grades are not used in computing a student's GPA. A maximum of 45 credits graded P may be applied toward Portland State's baccalaureate degree. Students elect grade options for specific courses during the registration period. Grading options may not be changed after the seventh week of the term. The undifferentiated grade option may not be used to repeat a course previously taken for differentiated grade or for major requirements in some departments.

Incomplete Grades

Students do not have a right to receive/demand an Incomplete grade. The option of assigning an Incomplete grade is at the discretion of the instructor when the following criteria are met.

Eligibility Criteria

1. **Required satisfactory course completion/participation.** The quality of the work is satisfactory, but some essential work remains. In addition, the student must have successfully completed most of the course work at the time the student requests the Incomplete, with a minimum grade up to that point of a C- for undergraduate, or B- for a graduate level course.
2. **Reasonable justification for request.** Reasons for assigning the Incomplete must be acceptable by the instructor. A student does not have the right to demand an Incomplete. The circumstances should be unforeseen or be beyond the control of the student. The instructor is entitled to request appropriate medical or other documentation to validate the student's request.
3. **Incomplete grade is not a substitute for a poor grade.** The Incomplete grade is not meant to create the opportunity for special or additional work for a student to raise a poor grade, or for the opportunity to take the course over by sitting in on the course in a later term without registering or paying for it.
4. **Written agreement.** A written or electronic agreement will be endorsed by both the instructor and student. The document will specify a) the remaining work to be completed, b) the highest grade which may be awarded upon submission of remaining items, and c) the date which the missing work is due. The latter may not exceed one year from the end of the term for enrollment for the given course. A template "Incomplete Contract" is available at www.pdx.edu/registration/grading-system.
5. **Resolving the Incomplete.** Instructors may not encourage students to "sit in" an entire future course in order to resolve the Incomplete grade. If the student needs to retake the entire course, they should be given the grade presently earned, and must formally register for the future class they will be attending. If the missed portion of the course is no longer available, instructors may offer an alternative assignment. Grading weight of the alternative assignment should not exceed the original assignment. Students are fully responsible for monitoring all due dates.

Other Rules:

1. **GPA Calculation:** Incomplete grades are not included when calculating GPA.
2. **Deadline for Completion:** The deadline for completion of an Incomplete is one calendar year. The instructor may set a shorter deadline, which is binding. Any request for a longer deadline must be requested via petition to the Scholastic Standards Committee or Graduate Council.

3. Failure to make up an Incomplete by the end of one year:

- a. **Undergraduate Incomplete Grades:** The mark of "I" will automatically change to a grade of "F" or "NP", depending on the grading option chosen by the student upon registration. If the Incomplete converts to an F, the F grade is included in calculating GPA.
 - b. **Graduate Incomplete Grades:** The Incomplete will become part of the permanent record for a graduate course.
4. **Graduating Undergraduate Students:** Incompletes awarded in undergraduate courses taken in Fall 2006 or later will automatically change to a grade of "F" or "NP" before conferral of the degree. The faculty of record may submit a grade change no later than 30 days after the degree is awarded. Grades of "F" or "NP" will remain on the academic record after this period and cannot be removed.

Drops and withdrawals

The student must initiate drop/withdrawals from a course. It is the student's responsibility to withdraw properly by the deadline dates published online at www.pdx.edu/registration/calendar. To avoid having to pay special course deposit fees, students should refer to departmental policies.

A student may drop with no record of the course on the transcript up to the end of the second week of the term. As a courtesy, students are advised to notify the instructor concerned of the intended drop.

A student may withdraw for any reason before the end of the seventh week. A student withdrawing in the third through the seventh week will have a "W" recorded on the transcript.

A student cannot withdraw after the seventh week without approval of the Deadline Appeals Committee. A "W" is recorded if the petition is allowed.

Deadline dates for drops and withdrawals are found in the academic calendar published online at www.pdx.edu/registration/calendar. Date of withdrawal is the date request is received by the Office of the Registrar.

X Grade: Non-attendance and No Basis for Grade

The X grade is used when there is little or no attendance and no work/performance upon which to base an academic evaluation. X grades cannot be changed after initial submission and other grades cannot be changed to X except in cases of bona fide grading error as documented by instructor, requiring department chair approval. X

grades carry no credit and are not included when calculating GPA.

M Grade: Missing Grade

M grades are automatically assigned by the system when grades have not been submitted to the Office of Registrar by the grading deadline. M grades will change to a grade of X, one term after the initial term. Once converted to an X, grade cannot be changed except in cases of bona fide grading error as documented by instructor, requiring department chair approval. M grades carry no credit and are not included when calculating GPA.

Non-Completion of Course

A student who has participated in a course but who has failed to complete essential work or attend examinations, and who has not communicated with the instructor, will be assigned a D, F, NP, or whatever grade the work has earned. Students who have not attended, nor participated in a course may receive an X grade. Students who withdraw from all courses in any given term must notify the Office of Financial Aid on or before the date of complete withdrawal.

Grade Point Average (GPA)

The Office of the Registrar computes current and cumulative GPAs on student grade reports and transcripts, according to the following scale: A = 4, B = 3, C = 2, D = 1, F = 0. A plus grade increases the points by 0.33, a minus decreases it by 0.33 (e.g., B- = 2.67). Cumulative grade point averages include all credits and points earned at PSU. The GPA calculation is truncated at two decimal points (i.e. rounding up is not used). Separate GPAs are calculated for undergraduate courses and for graduate courses. Further details on academic standing can be found at www.pdx.edu/registrar/academic-standing.

GPA Repeat Policy

This policy only applies to undergraduate duplicate courses. Credit and GPA are retained on the first A, A-, B+, B, B-, C+, C, C-, and all grades in subsequent attempts count in GPA. The first PSU grade of D or F may be forgiven if repeated at PSU for a differentiated grade (not P/NP). In this case, credit is retained on the last grade received. Both grades are retained on the transcript. If repeated more than once, each subsequent grade will be retained on the transcript and counted in the GPA.

Latin honors at graduation

Latin honors designations are conferred at the baccalaureate level to students who have earned the requisite PSU GPA and who have earned a minimum of 72 credits from PSU, with at least 60 of those credits taken for differentiated grades (A-F). The GPA calculation is based

on PSU credit and utilizes the current PSU repeat policy. The award levels are as follows:

summa cum laude—3.90-4.00
magna cum laude—3.80-3.89
cum laude—3.67-3.79

Latin honors are noted on academic transcripts, inscribed on diplomas, and honors candidates are identified in the commencement program.

President's List and Dean's List Awards

Portland State University recognizes and honors the academic accomplishments of our undergraduate students each term by awarding placement on the Dean's List and the President's List. High achieving students, as indicated by grade point averages, are placed on the Dean's or the President's List according to the criteria established by the Council of Deans. Dean's List and President's List awards are only given to undergraduate students who have not yet earned a baccalaureate degree. The awards are given at the end of each term and are not recalculated based on grade changes or the removal of incomplete grades. The award is acknowledged with a notation on the student's academic transcript.

Full-time

Students who have a term GPA of 4.00 are placed on the President's List, and students who have a term GPA of 3.75-3.99 are placed on the Dean's List.

Students on both lists must be admitted undergraduate students with a cumulative GPA of 3.50 or better, carrying 12 credits or more (excluding AU and P/NP credits).

Part-time

Admitted undergraduate students with a cumulative GPA of 3.50 or better, carrying fewer than 12 credits for a given term may qualify for the President's List (4.00 GPA) or Dean's List (3.75-3.99 GPA) if both of the following conditions are met:

- A minimum of three part-time terms must be completed in succession, without interruption by either a term of full-time enrollment or the awarding of Dean's List or President's List
- At least 12 credits (excluding AU and P/NP credits) must be earned over the combined part-time terms and the student must have an average GPA of 4.00 (President's List) or 3.75-3.99 (Dean's List) over the combined terms

Transfer Credit Policies

Accredited colleges and universities

The Office of the Registrar, in consultation with academic units evaluates credits from accredited colleges and

universities. Portland State University accepts college-level credits earned in academic degree programs at colleges and universities accredited by regional accrediting associations and as recommended in Transfer Credit Practices of Designated Educational Institutions. All courses are evaluated to be either equivalent or parallel to PSU courses. Equivalent means that the catalog course description is substantially equal to that in the Portland State University Bulletin. Parallel means that the course is in a discipline which is offered by Portland State, even though PSU does not offer the specific course.

Unaccredited institutions and foreign colleges and universities

Departmental representatives, working through the Office of the Registrar, are authorized to evaluate credits transferred from unaccredited institutions or foreign colleges and universities after a student has been admitted to PSU. For specific course equivalency, students may be asked to provide catalog descriptions and/or documents certifying course content. Work from unaccredited schools is evaluated in accordance with the institutions and policies listed in Transfer Credit Practices, published by the American Association of Collegiate Registrars and Admissions Officers. Credit given for a particular course will not exceed credit given for the equivalent or corresponding PSU course.

Co-admission programs

Portland State University has established co-admission programs with Chemeketa Community College, Clackamas Community College, Clark College, Clatsop Community College, Mt. Hood Community College, Oregon Coast Community College, and Portland Community College. Each co-admission program allows students to concurrently enroll at both PSU and the community college campus. For more information go to www.pdx.edu/transferstudent/co-admission.

Associate degree transfer

Students who upon admission have completed an Associate of Arts-Oregon Transfer (AAOT) or an Associate of Science Oregon Transfer-Business (ASOT-B) or an Associate of Science Oregon Transfer - Computer Science (ASOT-CS) degree at an accredited Oregon community college or another PSU-approved associate degree, have met all lower-division general education requirements, which includes freshman and sophomore University Studies requirements. The student must still fulfill any outstanding upper-division general education requirements. The transfer Associates may not satisfy all requirements for admission to professional schools. Please check with each school for specific admission requirements.

Vocational and Career-Technical credits

Portland State University grants up to 12 credits for courses which are deemed vocational-career technical. These credits are transferred to PSU as general elective credits.

Oregon Transfer Module (OTM)

Transfer students who present an earned OTM from another Oregon institution will be granted a minimum of 45 quarter credit hours toward their general education graduation requirements.

Correspondence credit

A maximum of 60 correspondence credits are acceptable in transfer from regionally accredited schools recognized as institutions of higher education.

Community and junior colleges

The number of lower-division credits to be accepted in transfer from regionally accredited community and junior colleges is limited to 124.

College courses completed before high school graduation

College courses taken before a high school diploma is received are accepted in transfer provided the student receives grades of D- or above in the courses and the grades are posted on a college transcript.

Health Science Professions

Students who have completed preprofessional programs at PSU may transfer up to 48 credits of their professional health science work from schools accredited by a regional association and/or as indicated in Transfer Credit Practices. The health science students may not receive a bachelor's degree from PSU and from the professional school when both degrees are based essentially on the same credits completed by the student. The residence credit requirement is satisfied by completing 45 of the last 60 credits at PSU, after admission to PSU and prior to formal enrollment in the qualifying professional program. The student must be within 48 credits of receiving a bachelor's degree from PSU at the time of matriculation into the professional program.

GRADUATE STUDIES

Rossitza Wooster

Dean of Graduate Studies

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Portland State University graduate programs offer a variety of opportunities for advanced study and research, including preparation for academic or other professional careers, continuation and improvement of skills for in-service professionals, personal intellectual enrichment, and professional development. More than 5,000 graduate students are enrolled in the University's colleges and schools, and over 1,900 graduate degrees are awarded annually in the more than 70 master's and the 20 doctoral programs.

The Office of Graduate Studies (OGS) oversees the University's graduate programs in the interest of ensuring quality instruction and research and promoting the highest achievement of graduate students. It is the principal resource concerning graduate admission policies and procedures, advanced degree requirements, degree status, petition procedures, thesis or dissertation preparation, and final oral examinations.

All matters of graduate study are subject to the policies and procedures established by the Faculty Senate upon recommendation of the Graduate Council. The Graduate Council develops and recommends University policies and regulations for graduate studies, recommends standards for graduate courses and programs, and adjudicates petitions regarding graduate policies. The Dean of Graduate Studies is responsible for conducting the affairs of the Office of Graduate Studies and for certifying candidates who have fulfilled the requirements for advanced degrees.

Student responsibility

The student is responsible for knowing all regulations and procedures required by the University and the advanced degree program being pursued. In no case will a regulation be waived or an exception granted because of ignorance of the regulation or of the assertion that the student was not informed by the adviser or other authority. The student should be familiar with information published in the *Portland State University Bulletin*, including the section on Graduate Studies and the section listing the requirements for the degree and the offerings and requirements of the major department. The department chair appoints a faculty adviser for each graduate student to assist in developing

the course of study, determining deficiencies, planning the program, and clarifying special regulations. Departments can be expected to have additional degree requirements beyond those listed in the *Bulletin*.

A graduate student may petition the Graduate Council for the waiver of a University graduate academic regulation or degree requirement. The petition process is an option in unusual cases with extenuating circumstances. A petition is not a remedy for poor advising on the part of an academic unit or poor planning by the student. The responsibility of initiating the petition rests with the student. Petition forms are available from the Office of Graduate Studies. The decision of the Graduate Council is final.

The University reserves the right to require the withdrawal of any student who fails to accept responsibilities, as evidenced by conduct or scholastic achievement.

Admissions requirements

Graduate admission requirements

Graduate admission is selective and meeting minimum requirements does not guarantee admission. The number of students admitted to a particular program is limited to the resources and space available in each program. All applicants for a graduate degree or certificate program must meet minimum University admission requirements as well as departmental requirements.

University admission requirements include:

- A bachelor's degree from a regionally accredited institution
- Minimum GPA. For Regular (p. 42) admission, applicants must have a cumulative undergraduate GPA of 2.75 or higher. Applicants who have already earned 9 or more letter-graded graduate credits must have a cumulative graduate GPA of 3.00 or higher; this GPA supersedes the undergraduate GPA. For University Conditional (p. 42) admission, applicants must have a cumulative undergraduate GPA between 2.50 and 2.74.
- Copies of transcripts from all colleges and/or universities attended (except PSU), including junior colleges and community colleges
- \$65 application fee + \$2 processing fee
- Recommendation for admission from the appropriate graduate program's department

University enrollment requirements include:

- Verification of official transcripts from all colleges and/or universities attended

- Proof of English language proficiency as demonstrated by:
 - Completion of a bachelor's degree, master's degree, or doctoral degree in the U.S., Australia, English-speaking Canada, Ireland, New Zealand, or the U.K., or;
 - Completion of Portland State's Intensive English Language Program (IELP) with a 3.50 GPA in all courses and recommendation from the IELP, or;
 - Completion of one of the following exams:
 - International Test of English as a Foreign Language (TOEFL), minimum overall score of 80; minimum subscores of 18 in reading and writing
 - International English Testing Systems (IELTS) exam, minimum overall score of 6.5; minimum subscores of 6.5 in reading and writing
 - Pearson Test of English-Academic (PTE), minimum score of 60 overall
 - Tests more than two years old are accepted if the score exceeds the minimum requirement and the applicant has maintained continuous residency in the United States since the exam date

In cases when a student does not meet University admission requirements, departments may choose to submit a Graduate Admission - Special Approval Request to the Office of Graduate Studies. This process may only be initiated by a department.

International applicants must also submit:

- Copies of official degree certificates/diplomas
- Certified translation of transcripts and degree certificates/diplomas
- Financial documentation demonstrating adequate financial support for at least the first year of study

Depending on the individual graduate program, additional departmental requirements may include:

- Personal essay or statement of purpose
 - Letters of recommendation
 - Standardized test scores, e.g. GRE or GMAT
 - Resume
 - Writing samples
 - Portfolio
- Information regarding departmental requirements can only be obtained directly from the specific department.

Three-Year Bridge program

This program is an alternate method of meeting graduate admission requirements. It is designed for international students coming from non-Bologna-compliant three-year baccalaureate degree programs recognized by the Ministries of Education in their home countries. This program comprises approximately one year of academic study intended to bridge the differences between the applicant's degree and a four-year U.S. baccalaureate degree. Students are invited to participate in this program only if they have been recommended for admission by their departments.

Admission statuses

All admitted graduate certificate and degree students will be assigned one of the following admission statuses:

Regular status

To be eligible for admission with Regular status, a student must have a cumulative undergraduate GPA of 2.75 or higher. A student who has already earned 9 or more letter-graded graduate credits must have a cumulative graduate GPA of 3.00 or higher; this GPA supersedes the undergraduate GPA.

University Conditional status

Students who do not meet GPA requirements for Regular status are given University Conditional status if they have a cumulative undergraduate GPA between 2.50 and 2.74. After completing 9 letter-graded graduate credits with a GPA of 3.00 or higher, students with University Conditional status will automatically be converted to Regular status. Students admitted on University Conditional status who do not earn a GPA of 3.00 or higher after completing 9 letter-graded graduate credits will have their admission canceled.

Department Conditional status

Department Conditional status may be imposed on a student who has a deficiency in departmental requirements. These conditions may include GPA requirements or additional coursework and may be more rigorous than University Conditional status or other University standards. Department Conditional status is removed once a department determines the appropriate requirements have been met. Students who do not fulfill the requirements of their Department Conditional status can have their admission canceled by the department.

Both University Conditional and Department Conditional status

Students who have both University Conditional status and Department Conditional status are subject to all of the

policies stated above. University Conditional status and Department Conditional status are removed independent of each other, and usually not at the same time.

Postbaccalaureate

Students not currently working toward a degree but who wish to register for more than 8 graduate credits per term may be admitted to postbaccalaureate status. A postbaccalaureate student may find departmental enrollment limitations on many courses.

A postbaccalaureate student wishing to be admitted to a graduate certificate or degree program must apply in the same way as any other applicant, meet the general University requirements, and be recommended for admission by the department. Courses completed in a postbaccalaureate status are not automatically applied toward a graduate degree; each course must be evaluated and recommended by the department and is considered pre-admission credit to which all pre-admission limits and requirements apply. See Pre-admission and transfer credit (p. 46) for additional details.

Enrollment

Validation of admission

Students must register for a minimum of 1 credit during their term of admission; failure to do so will result in cancellation of admission.

Graduate grading system

The following grading scale is employed at the graduate level:

A	= 4.00	B-	= 2.67	D+	= 1.33
A-	= 3.67	C+	= 2.33	D	= 1.00
B+	= 3.33	C	= 2.00	D-	= 0.67
B	= 3.00	C-	= 1.67	F	= 0.00

The grading system at the graduate level is defined as follows:

A—Excellent
B—Satisfactory
C—Below graduate standard
D—Failure
F—Failure

The following marks are also used:

P—Pass (B- or better)
NP—No Pass

I—Incomplete
IP—In progress
W—Withdrawal
X—Non-attendance/No basis for grade
M—Missing grade/No grade received
AU—Audit

Responsibility for dropping courses

It is the student's responsibility to drop courses they do not wish to attend. Non-attendance does not cancel the tuition charges nor prevent the course from appearing on the student's academic record.

Non-completion of course

A student who has participated in a course but has failed to complete essential work or attend examinations, and who has not communicated with the instructor, will be assigned the appropriate grade based on coursework completed.

Incompletes

Students do not have a right to receive/demand an Incomplete grade. The option of assigning an Incomplete grade is at the discretion of the instructor when the following criteria are met.

Eligibility Criteria

1. **Required satisfactory course completion/participation.** The quality of work is satisfactory, but some essential work remains. In addition, the student must have successfully completed most of the course work at the time the student requests the Incomplete, with a minimum grade up to that point of a B- for a graduate course.
2. **Reasonable justification for the request.** Reasons for assigning the Incomplete must be acceptable to the instructor. A student does not have the right to demand an Incomplete. The circumstances should be unforeseen or beyond the control of the student. The instructor is entitled to request appropriate medical or other documentation to validate the student's request.
3. **Incomplete grade is not a substitute for a poor grade.** The Incomplete grade is not meant to create the opportunity for special or additional work for a student to raise a poor grade, or for the opportunity to take the course over by sitting in on the course in a later term without registering or paying for it.
4. **Written agreement.** A written or electronic agreement will be endorsed by both the instructor and student. The document will specify a) the remaining work to be completed, b) the highest grade which may be awarded upon submission of remaining items, and c) the date which the missing work is due. The latter may not exceed one year from the end of the term of enrollment

for the given course. A template Incomplete Contract is available from the Registrar.

5. **Resolving the Incomplete.** Instructors may not encourage students to "sit in" an entire future course in order to resolve the Incomplete grade. If the student needs to retake the entire course, they should be given the grade presently earned, and must formally register for the future class they will be attending. If the missed portion of the course is no longer available, instructors may offer an alternate assignment. Grading weight of the alternate assignment should not exceed the original assignment. Students are fully responsible for monitoring all due dates.

Other Rules:

1. **GPA Calculation.** Incomplete grades are not included when calculating GPA.
2. **Deadline for Completion.** The deadline for completion of an Incomplete is one calendar year. The instructor may set a shorter deadline, which is binding. Any request for a longer deadline must be requested via petition to the Graduate Council.
3. **Failure to make up an Incomplete by the end of one year.** The Incomplete will become part of the student's permanent academic record for a graduate course.

Drops and withdrawals

Drops/withdrawals from a course must be initiated by the student. It is the student's responsibility to drop/withdraw properly by the published deadlines dates.

A student may drop with no record on the transcript up to the end of the second week of the term. As a courtesy, students are advised to notify the instructor concerned of the intended or completed drop.

A student may withdraw for any reason before the end of the seventh week. Withdrawing in the third through seventh week will result in a "W" recorded on the transcript.

A student wishing to withdraw after the seventh week must petition the Deadline Appeals Board. A "W" is recorded if the petition is approved.

Refunds are automatic and are calculated from the date of official drop/withdrawal. The refund is 100% only if the drop occurs within the first week of the term.

The above deadlines refer to fall, winter and spring terms. For deadlines during summer session, consult the Registrar's Academic Calendar.

No Basis for Grade (X grades)

An X grade indicates No Basis for Grade and is used when there is little or no attendance and there is no work/performance upon which to base an academic

evaluation. X grades cannot be changed after initial submission, and other grades cannot be changed to an X.

An auditor may also be assigned an X for insufficient attendance.

Missing Grade (M grades)

If an instructor does not award a grade during the open grading window, an M grade (Missing) is automatically assigned. Effective Fall 2011, M grades will change to a grade of X one term after the M was initially assigned. Once converted to an X, the grade cannot be changed.

A graduate student will not be certified for graduation who has any M grades in PSU graduate courses that could potentially be letter graded, even if the courses are not applied to the student's degree.

Audit (AU)

Graduate students may take any course for which they have the prerequisites and which is open to them on the basis of their admission category on an audit (no-credit) basis. The tuition and fees for auditing courses are the same as for taking the courses for credit, but a student's load (total credit hours) does not include audit enrollments. Audited courses cannot be used to meet any requirement for degrees or certificates, for required registration for graduate assistants, or for scholarship students. Students cannot receive financial aid for audited courses. During the add-drop period, a student registered for a course for audit may change to credit status or vice versa through the official methods; thereafter, the change cannot be made.

Academic record sealed after degree awarded

PSU academic records are sealed thirty days after the conferral of a degree. After this date, no changes can be made to the academic record, such as removal of Incompletes or grade changes, except via petition to the Graduate Council.

Catalog eligibility

To earn a graduate degree, students must meet the degree requirements published in a single, valid PSU *Bulletin* (catalog). The requirements in a catalog are valid for seven years; for example, the 2018-19 Bulletin can be used through summer 2025 graduation. Students can only use a catalog year during which they were both admitted and enrolled.

At the time a graduate program has a change to their curriculum approved, they may set more restrictive limits about which set of requirements can be used.

Credit distribution and limitations

Courses applied to any graduate certificate or degree program must be at the 500 or 600 level. Courses at the

700 and 800 level are not acceptable in any graduate certificate or degree programs, with the exception of 800-level courses in the master's degree programs in the Graduate School of Education as well as some M.A.T./M.S.T. programs; these programs may allow a maximum of 6 credits at the 800 level.

Students who take 400/500 courses at the 500 level must complete distinct requirements from those in the 400-level section. With the exception of coursework reserved for graduate credit (p. 46) or coursework taken as part of a bachelors+masters program (p. 47), graduate tuition is charged for all graduate-level coursework.

At the master's level, a minimum of 12 credits in a 45-credit program must be taken in residence in 500, 500/600, or 600 course level categories. The remainder of the required credits may be 400/500 courses taken at the 500 level.

Limitations are placed on the number of 501, 502, 503, 504, 505, 508, and 509 credits that can be applied to master's degrees. In a 45-credit program, the limits are as follows: a maximum of 12 credits in 501, 502, and 505 combined; a maximum of 9 credits in 504, 508, and 509 combined; a range of 6 to 9 credits in 503. Courses numbered 60x are included in these limitations.

Repeat of graduate courses

If a graduate course is repeated, the grades awarded both times are included in the GPA. Repeating courses with the sole intent of raising the GPA is not acceptable.

A graduate course cannot be repeated and applied to degree requirements twice unless the course was originally approved as repeatable for credit.

If a course offered as a 400/500 level course is taken for credit at the 400 level, the same course cannot be taken again for credit at the 500 level.

Correspondence credit

Under no circumstance will credit earned through correspondence study be acceptable toward a graduate degree or certificate.

Academic load

Full-time enrollment for graduate students is 9-16 credits. Graduate students must obtain approval for registration in excess of 16 credits (graduate and undergraduate credits combined) via the Overload Approval form. A student registering for 17 to 19 credits must obtain the approval from their department chair or faculty adviser. A student registering for 20 credits or more must obtain the approval of their department chair and the Office of Graduate Studies. A graduate assistant registering for more than 16 credits must obtain approval from their department chair and the Office of Graduate Studies.

Computer Science and Electrical & Computer Engineering graduate students have a lower maximum registration limit of 10 credits. These students must obtain approval to register for 11 or more credits via the Overload Approval form.

Minimum enrollment

PSU requires that graduate students who are involved in activities requiring faculty time or the use of University facilities register every term (excluding summer), including those engaged in any phase of research, such as collecting or developing data, or when engaged in any aspects of a project, thesis, or dissertation.

After advancement to candidacy, doctoral students must be continuously enrolled for a minimum of 1 graduate credit every term (excluding summer) through the term of graduation.

A minimum of 1 graduate credit of registration is required in any term (including summer) when students are completing a major milestone for the degree such as taking any comprehensive or final examination, when holding a thesis/dissertation proposal or defense, and in the term of final thesis/dissertation submission and graduation.

The student's department can require additional registration in any given term in relation to the amount of time required of faculty or the use of University facilities during the term.

Residency requirements

Residence credit is defined as credit taken at PSU after formal admission to a graduate degree program. Residency requirements are intended to ensure that students work in close association with other graduate scholars in the intellectual environment of PSU.

In a master's program, to meet the residency requirement a student must earn a minimum of two-thirds of the credits required for the degree after formal admission to a master's degree program at PSU.

In a doctoral program, the residency requirement can be satisfied in one of the following ways:

- Three terms of full-time enrollment (minimum 9 graduate credits applicable to the degree program each term) during the first two years after admission to the program. This may include one or more summer terms.
- Six terms of part-time enrollment (minimum 1 graduate credit applicable to the degree program each term) during the first two years after admission to the program. This may include one or more summer terms.
- A doctoral student who was enrolled in the same major at PSU, and whose matriculation to the doctoral program immediately follows (within one calendar year) the master's degree program, may fulfill the

residency requirement during the period in which the student was enrolled in the master's program.

Pre-admission and transfer credit

Courses taken at any institution, including PSU, before the term of formal admission to a PSU graduate degree program are pre-admission credits. Courses taken at any other institution at any time are transfer credits. Transfer credits must be graduate credit taken at a regionally accredited institution and applicable to a graduate degree program without qualification at the originating institution.

A master's student must earn a minimum of two-thirds of the credits required for the degree after formal admission to the graduate degree program at PSU and must earn a minimum of two-thirds of the credits required for the degree at PSU. Departments may have stricter limitations. Pre-admission and transfer credits for master's degrees must meet all the following requirements: must be letter-graded B- or higher (pass or similar grading methods are not acceptable); must not be used for any other degree at any institution (except for shared master's credits (p. 47)); must be no older than seven years old at the time the master's degree is awarded; and must total no more than one third of the required credits for a master's degree program. Otherwise eligible PSU credits applied toward a completed graduate certificate can be applied toward a subsequent master's degree without counting toward the pre-admission limits. For master's degrees, pre-admission credits taken at PSU are requested via a DARS exception submitted to the Office of Graduate Studies. This request should be made soon after admission to the graduate program. Transfer courses from another regionally accredited institution are requested via the Proposed Transfer Credit form (GO-21M) submitted to the Office of Graduate Studies. It is strongly suggested that this form be submitted early in the student's program. (The M.S.W. program has specific transfer credit allowances resulting from accreditation requirements and inter-institutional agreements, but a minimum of 42 credits applied to the M.S.W. must be taken at PSU.)

For graduate certificates, two-thirds of the required credits, or 15 credits minimum, whichever is larger, must be taken at PSU. Individual programs may set higher minimums. Transfer credits for graduate certificates must be letter-graded B- or higher (pass or similar grading methods are not acceptable) and must be no older than seven years old at the time the graduate certificate is awarded. Transfer credits from other institutions must be approved by the graduate certificate program and the Office of Graduate Studies using the Proposed Transfer Credit form (GO-21M). Although pre-admission limits do not apply, reserved credit (p. 46) limits do apply. Students are encouraged to apply for and be admitted to graduate certificate programs as early as possible.

For doctoral degrees, pre-admission and transfer limits are at the discretion of the individual doctoral programs. Transfer credits are requested via the Proposed Transfer Credit form (GO-21D) submitted to OGS

Approved graduate transfer courses from other institutions are not entered on PSU transcripts and are not considered in the computation of PSU cumulative graduate GPA. However, transfer courses are included in the approved program of study for all graduate certificate and degree programs and are used to calculate the program GPA, which must be 3.0 or higher in order to graduate.

Pre-admission and transfer credits from international institutions are subject to the same requirements and limitations. Requests for international pre-admission and transfer credits require additional documentation to facilitate verification of eligibility.

Joint campus courses

Admitted graduate students at PSU may take graduate courses offered by the University of Oregon or Oregon Health and Science University through the Joint Campus registration process. Joint Campus (JC) registration allows PSU students to have a graduate course from UO or OHSU included in their current term enrollment and tuition assessment at PSU. For additional details, see the OGS website. JC courses will be listed on the student's PSU transcript, however, JC courses are considered transfer credits (p. 46) for which all transfer credit limitations apply. After the course is completed, students will need to submit a GO-21 form to OGS to request that these JC transfer credits be applied to their program of study at PSU.

Reservation of coursework for graduate credit

Graduate-level course work taken while working toward a student's first bachelor's degree can be reserved for use in a PSU graduate program. Only credits earned at PSU can be reserved for graduate credit. Reserved graduate credit is limited to 12 completed graduate credits letter-graded B- or higher earned within the last 45 credits prior to awarding of the student's first bachelor's degree and not used to fulfill the requirements for any bachelor's degree. Such courses are pre-admission credits and subject to all pre-admission requirements and limitations. Departments may have stricter limitations.

Use of reserved credits is requested via a DARS exception submitted to the Office of Graduate Studies. This request should be made soon after admission to the graduate program.

Course overlap between degrees and certificates

In specific circumstances, coursework only (not a project, thesis/dissertation, or other culminating activity) can be

shared between programs. There are limits on the use of eligible graduate courses between graduate programs.

- A graduate course that has been used to meet the requirements for a bachelor's degree or any undergraduate program cannot be applied to any graduate program (degree or certificate) unless the courses are part of a bachelors+masters program (p. 47) approved by the University, and the student has been admitted to that program.
- Graduate courses can be applied to two master's degrees only under the shared master's credit (p. 47) allowance.
- Graduate courses can be applied to a master's degree and a doctoral degree provided the master's degree is awarded prior to or concurrent with the doctoral degree.
- Graduate courses can be applied to a master's degree and a graduate certificate.
- Graduate courses can be applied to a master's degree and a post-bac certificate.
- Graduate courses can be applied to a doctoral degree and a graduate certificate.
- Graduate courses cannot be applied to two graduate certificates.
- Graduate courses can be applied to more than one doctoral program (at the discretion of both doctoral programs), but the following items must be completed at PSU for each doctoral degree: comprehensive exams, residency, proposal, advancement to candidacy, and dissertation research.
Departments can set more restrictive limits.

Bachelors+masters programs

Bachelors+masters degree programs allow high-achieving students to complete a bachelor's and master's degree at an accelerated pace. Students with upper-division standing may apply to an approved bachelors+masters degree program. The minimum institutional undergraduate GPA for admission to a bachelors+masters program cannot be less than 3.30; beyond the GPA minimum, individual programs will set their own admissions criteria. Students admitted to an approved bachelors+masters program can share a maximum of 15 graduate credits between a bachelor's and master's degree. Programs may choose to allow fewer shared credits. Shared credits will be considered pre-admission credits when applied to the master's degree.

After admission to a bachelors+masters degree program, students must maintain an institutional undergraduate GPA of 3.30 and earn a B or higher in graduate courses taken for shared credit. Upon completion of the bachelor's degree, students who meet those requirements will be guaranteed

admission to the master's program with shared credits. Students who do not meet those requirements would need to apply for admission to the master's degree program without the benefits of bachelors+masters shared coursework.

Shared master's credits

A student may work toward the completion of the requirements for two PSU master's degrees in complementary disciplines or toward a master's degree at PSU and a partner university when there is a formal agreement between the two institutions. The credits to be shared between both master's degrees cannot exceed one-third of the required credits for a degree. If the two degrees have different total credit requirements, the one-third limit is determined by the smaller total credit requirement. Only coursework can be shared between two master's degrees; internship, practicum, project, thesis, or other culminating activity cannot be shared. Students are limited to one use of the shared master's credit allowance. Shared credits must be approved by the student's departments and the Office of Graduate Studies with a Shared Master's Credit form (GO-14).

Leave of absence

An admitted graduate student in good academic standing may request a leave of absence. A leave of absence provides a guarantee that the student will be allowed to return to their graduate program at the agreed-upon time and exempts the student from the continuous enrollment requirement (applicable only to advanced doctoral students). However, a leave of absence does not constitute a waiver of the time limit for completion of a graduate program nor the one-year limit for completion of a course.

A leave of absence is granted for a specific time period, up to a maximum of three terms (excluding summer). Students may request a second leave of absence, also for a maximum of three terms. A student with an approved leave of absence cannot register for any coursework or engage in any activities that require faculty time or use of University resources. It is the student's responsibility to drop or withdraw from all courses as well as notify other appropriate offices on campus of their leave status (Financial Aid, etc.).

A Graduate Leave of Absence Request must be submitted to the Office of Graduate Studies no later than the Friday of the second week of the term for which the leave of absence should take effect. A leave of absence will not be approved retroactively.

Re-enrollment

Admitted graduate students who fail to enroll for credits for three consecutive terms (excluding summer) must submit a Graduate Re-Enrollment Request to their

department. If this request is supported by their department, the form is signed and forwarded to the Office of Graduate Studies for processing.

Students submitting the Graduate Re-Enrollment Request who have enrolled in coursework elsewhere since PSU admission must also submit one sealed, official transcript to the Office of Graduate Admissions from each institution attended subsequent to PSU graduate admission.

To ensure timely registration, the completed Graduate Re-Enrollment Request should be received by the Office of Graduate Studies no later than three weeks prior to the start of the term the student wishes to re-enroll.

Per Executive Order 13607, students who are re-enrolling after an interruption due to military service can re-enroll in the same program, with the same enrollment status and the same academic standing, which they had when the military service began if they wish. The period of military service and an additional period of up to three years (limited to five years total), may be excluded from standard University time limits. Students must notify the Office of Graduate Studies that they are returning from military services (and present appropriate documentation) so that the possible impact on time limits can be identified.

Cancellation of admission to graduate program

If a student does not validate admission by registering and paying for at least 1 credit at PSU in the term of admission, that admission will be cancelled unless the student contacts the Office of Graduate Admissions and requests that the admission be updated to another term within a one-year period. If the student does not validate admission within a one-year period, the admission will be cancelled and the student must submit a new application and a new application fee.

A student with validated admission to a graduate certificate or degree program who during a one-year period (1) does not have an approved leave of absence and (2) does not successfully complete a graduate course in the approved program of study for the degree OR does not make satisfactory progress toward the degree (as determined by the department) may have admission to the degree program canceled. Additionally, a doctoral student who has not been registered for three years will have admission to the degree program canceled. For further information, students are urged to contact individual departments for departmental policies and practices.

Faculty as student policy

PSU faculty members are encouraged to pursue additional advanced degrees at other institutions. Faculty members above the rank of instructor are not eligible to receive an advanced degree in their own department or school at the University; however, in special circumstances, they may

earn a degree in a department or school in which they do not hold an appointment.

Academic Standing

All admitted graduate certificate and degree students at PSU must maintain good academic standing during the course of their graduate program. Good academic standing is defined as maintaining a cumulative graduate GPA of 3.00 or higher in all graduate credits earned at PSU. All graduate students, especially those in a conditional admission status, are expected to keep in close communication with their departments and to avail themselves of departmental advising.

Academic probation

An admitted graduate student is placed on probation if the student's cumulative graduate GPA at PSU, based on the completion of 9 or more letter-graded graduate credits after admission to the graduate level at PSU, falls below 3.00.

While on academic probation a student will not be permitted to graduate, to be admitted to a new or different graduate certificate or degree program, to be advanced to doctoral candidacy, to have a thesis or dissertation committee appointed, to receive or continue to hold a graduate assistantship, or to register for more than a total of 9 credit hours in any term. A student is removed from academic probation if the student's cumulative graduate GPA is brought up to 3.00 or higher within the next 9 letter-graded graduate credits after beginning probation status.

Academic disqualification

Disqualification occurs if:

1. A student on academic probation fails to achieve a cumulative graduate GPA of 3.00 or higher within the next 9 letter-graded graduate credits after beginning probation status; or
2. A student becomes subject to academic probation for a second time.

A student who is disqualified may not register for any graduate courses at PSU.

Readmission after disqualification

Readmission after disqualification is not automatic. A disqualified student may petition for readmission as a student in a graduate certificate or degree program after one calendar year. Readmission after the mandatory one-year period is initiated by the student's filing of a petition for readmission to the Graduate Council through the Office of Graduate Studies. Such a petition would need to address the circumstances that led to disqualification and provide evidence of preparedness to resume graduate study.

If a student's graduate program recommends readmission, the Graduate Council may grant readmission, with or without additional academic requirements, or may recommend continued disqualification. A readmitted student must raise the cumulative graduate GPA to 3.00 or higher within the first 12 letter-graded credits after readmission or the student will be disqualified.

Graduate courses completed at other institutions while a student is under disqualification at PSU will not be applied toward a graduate program at PSU.

Academic honesty

Graduate students have a primary, unique relationship and responsibility to the faculty of the academic departments, the faculty upon whose recommendations graduate degrees are awarded. A major feature of the graduate student's responsibilities to the faculty is the adherence to academic honesty. Academic honesty is a requirement for all graduate activities and assumes that the student is honest, that all coursework and examinations represent the student's own work, and that all documents supporting the student's admission and graduation are accurate and complete. Any violation of academic honesty may be subject to disciplinary sanction as provided in the PSU Student Conduct Code.

Violations of academic honesty include but are not limited to:

1. **Cheating in examinations and course assignments.** The willful use or provision to others of unauthorized materials in written or oral examinations or in course assignments.
2. **Plagiarism.** The appropriation of language, ideas, and products of another author or artist and representation of them as one's own original work; failure to provide proper identification of source data; use of purchased or borrowed papers in graduate courses without complete identification of the source.
3. **Selling or offering to sell course assignment materials.** Selling or offering to sell material to another person; knowing, or under circumstances having reason to know, that the whole or a substantial part of the material is intended to be submitted in fulfillment of a course requirement.
4. **Academic fraud.** Furnishing false or incomplete information to the University with the intent to deceive; forging, altering, or misusing University documents or academic forms which serve as the basis for admission, course study, or graduation; misrepresenting a person's identity to an instructor or other University official.

Tuition, fees, and aid

Basic graduate fees

Tuition and fees associated with graduate study at PSU are available from Student Financial Services. The admission application fee is required and is nonrefundable. All newly admitted graduate students are assessed a one-time graduate matriculation fee in their initial term of admission. Graduate tuition and fees assessed each term depend on the total number of credits in enrolled classes, differential tuition, and resident or nonresident status in the state of Oregon.

Financial assistance

Graduate assistantships

The University offers graduate assistantships for teaching, research, and administrative support on a competitive basis for students working toward graduate degrees at PSU. To qualify and to remain eligible for an appointment, a student must be admitted to a graduate degree program, remain in good academic standing, and make satisfactory academic progress towards their degree. Students wishing to apply for graduate assistantships must correspond directly with the appropriate department offering the assistantship.

Scholarships

The Office of Graduate Studies administers several scholarships and awards through our office, and also provides links to many external funding source.

WICHE

Under the Western Interstate Commission for Higher Education (WICHE) Regional Graduate Program agreement, residents of Alaska, Arizona, California, Colorado, Commonwealth of Northern Mariana Islands (CNMI), Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, South Dakota, Utah, Washington, and Wyoming admitted to specific degree programs are assessed resident tuition. A full list of approved programs is available on the application form. Completed applications are submitted to the Office of Graduate Studies.

Graduate programs

The graduate programs offered by Portland State University are listed below.

Graduate Certificates

A graduate certificate program is a linked series of approved graduate-level courses which constitute a coherent body of study with a specific defined focus within a discipline. It is designed for a postbaccalaureate

participant and reflects the educational mission of the University. Candidates for a graduate certificate must earn a minimum of 15 credits in approved graduate courses; many programs have higher minimums. A final project or portfolio may be required to provide for integration of the sequence of course materials.

Master of Arts and Master of Science (M.A. and M.S.)

The University offers programs leading to the Master of Arts and the Master of Science. These programs are designed to develop a mastery of subject matter in a chosen discipline and to provide training and experience in research.

Candidates for the Master of Arts and Master of Science degrees must earn a minimum of 45 credits in approved graduate courses; many programs have higher minimums. A thesis may be required, depending on the program. The Master of Arts degree requires a demonstrated proficiency in a second language. Second language proficiency is not required for the Master of Science degree.

Master of Arts in Teaching and Master of Science in Teaching (M.A.T. and M.S.T.)

The Master of Arts in Teaching and Master of Science in Teaching degrees are designed to combine coursework in the major discipline with coursework in education. To this end, the programs are developed and administered within flexible guidelines to match the needs of students with varying backgrounds and professional plans. All M.A.T. degrees require a demonstrated proficiency in a second language. Second language proficiency is not required for the M.S.T. degree.

A minimum of 45 graduate credits is required. The program of study includes the following:

1. At least 24 graduate credits must be devoted to selected courses in academic fields which strengthen the candidate's scholarship in a teaching field and related area. This minimum may be higher at the department's discretion.
2. At least 9 credits of courses in education are required.
3. A final written and oral examination is required.

Professional Degrees

PSU offers a variety of degrees which are designed to prepare students for work in professional fields. The programs are designed to develop a mastery of the subject matter in a chosen discipline and to provide practical training and experience in the field. Many professional degrees require more than the minimum 45 credits required for all master's degrees at PSU.

Doctor of Philosophy (Ph.D.)

The Doctor of Philosophy degree is awarded for scholastic achievement based upon the candidate's proven comprehensive knowledge in a specialized field of study and for creative scholarship through independent research. Judgment of such attainments is based upon evaluation of a dissertation grounded in independent research and the passing of prescribed written and oral examinations.

Doctor of Education (Ed.D)

The Doctor of Education degree is granted in recognition of mastery of theory, practice, and research in education. The Ed.D. in educational leadership program prepares highly qualified professional educators for positions in teaching, supervision, and administration in elementary and secondary education, in community and four-year colleges and universities, and in other educational institutions, both public and private.

Degree and certificate requirements

Graduate certificates

There are limits on the use of courses in graduate certificate programs that have not been fully approved through the curricular review process (i.e., courses numbered 501/601 through 510/610). A few graduate certificates require an omnibus course (e.g., 506 Project) as a culminating activity for the program. Apart from these required credits, courses numbered 501/601 through 509/609 are typically not allowed in graduate certificate programs. Experimental courses (i.e., courses numbered 510/610) can substitute for electives at the program's discretion, but all core courses must be fully approved.

A student must be in Regular status in order to graduate. University Conditional status will be automatically converted to Regular status upon completion of 9 letter-graded graduate credits with a GPA of 3.00 or higher after admission. Department Conditional status can only be removed by the academic department. For detailed information about Regular, University Conditional, and Departmental Conditional statuses, see Admission status (p. 42).

Graduate certificate students must have a minimum 3.00 GPA on all courses applied to the program of study, as well as a minimum 3.00 GPA in all graduate-level courses taken at PSU, in order to graduate. Departments may establish a more rigorous standard. Although grades of C+, C, and C- are below the graduate standard, they may be counted as credit toward a graduate certificate with the specific written approval of the program. Grades of D or F indicate clearly unacceptable work and cannot be applied to graduate certificate requirements. Audited courses cannot be used to meet any requirement for graduate certificates.

Courses completed up to seven years prior to the certificate award date may be used to satisfy graduate certificate requirements (e.g., a course started in the fall term of 2011 will be beyond the seven-year limitation at the close of fall term 2018).

For graduate certificates, transfer credit is defined as any eligible letter-graded (B- or higher) graduate course taken at another regionally accredited institution. Two-thirds of the credits required for a graduate certificate, or 15 credits minimum, whichever is larger, must be taken at PSU. Individual programs may set higher minimums. See the section on Course overlap between degrees and certificates (p. 46) for use of coursework in certificate programs.

A student cannot graduate with a graduate certificate who has an M (Missing) grade in a PSU graduate course that could potentially be letter graded, even if the course is not applied to the program of study.

Students must apply for graduation by the first Friday of the anticipated term of graduation; see the Graduate Candidate Deadlines for specific due dates. There is a required \$30 fee per application as well as a \$2 service charge. As a one-time courtesy, students who do not complete certificate requirements can have their application for graduation carried forward to a future term (typically the next term, but it could be at maximum up to one year in advance). To request that an application for graduation be carried, students must contact the Office of Graduate Studies in writing and provide an explanation for the graduation delay. If students do not graduate a second time, the application for graduation will be dropped; they will then need to reapply for graduation by the appropriate deadline (and will be assessed a new application fee).

Master's degrees

Second language requirement

The second language requirement for M.A. and M.A.T. students must be met before any final exam is taken or final graduation paperwork can be approved.

The Department of World Languages and Literatures has determined that the second language requirement for M.A. and M.A.T. students can be met in the following ways:

1. Equivalent coursework: Students who have passed a course equivalent to PSU level 203 or higher in a second language will be deemed to have met the language requirement. The Office of Graduate Studies will certify completion upon evaluation of the student's academic record if the requirement was completed at PSU. If the requirement was completed at a different institution, the Department of World Languages and Literatures will issue a certificate of completion. M.A. and M.A.T. students are responsible for making their academic records available in the first term of admission and requesting evaluation and certification.

2. Students who do not meet the requirement under 1. above should make an appointment with the Department of World Languages and Literatures during the first term after their admission to make an individualized plan for the completion of their language requirement. Options include preparing for and passing one of these evaluations:
 - a. Oral proficiency interview
 - b. A written test such as
 - i. The Graduate Student Foreign Language Test
 - ii. The CLEP exam
 - iii. A special exam, administered by the Department of World Languages and Literatures
 - c. Coursework after admission: taking a course at level 203 or above in residence or abroad
 - d. Special reading courses, if available.

The Department of World Languages and Literatures will teach and test only in languages in which it has expertise. However, off-campus arrangements may be possible with the cooperation of other institutions and the approval of the chair of the Department of World Languages and Literatures. Certification of having passed a second language examination from an institution other than PSU must be approved by the Department Chair of World Languages and Literatures.

A student whose native language is not English may meet the second language requirement in English, except for students in the M.A. in World Languages and Literatures, who are required to demonstrate fluency in two foreign languages other than English at the time of admission and are not required to demonstrate additional competency except as necessary to complete their degree requirements.

Coursework and program of study

In the first year a student should prepare a proposed program of study in consultation with the faculty adviser. The purpose of the planned program of study is to present an organized, individualized plan for coursework, practica, and research activities consistent with the requirements for the proposed degree and approved by the faculty adviser.

A student must be in Regular status in order to have a thesis committee appointed (GO-16M form) or to have any final graduation paperwork approved. University Conditional status will be automatically converted to Regular status upon the completion of 9 letter-graded graduate credits with a GPA of 3.00 or higher after admission. Department Conditional status can only be removed by the academic department. For detailed information about Regular, University Conditional, and Departmental Conditional statuses, see Admission statuses (p. 42).

If PSU pre-admission credits or reserved credits are to be included on the program of study, the department must submit a DARS exception to the Office of Graduate Studies. If transfer credits (courses taken at any time from another regionally accredited institution) are to be included on the program of study, the Proposed Transfer Credit form (GO-21M) must be submitted to the Office of Graduate Studies for approval. See Pre-admission and transfer credit (p. 46) and Reservation of coursework for graduate credit (p. 46) for detailed information about pre-admission, transfer, and reserved credits.

A student must have a minimum 3.00 GPA on the courses applied to the program of study, as well as a minimum 3.00 GPA in all graduate-level courses taken at PSU, in order to graduate. Departments may establish a more rigorous standard. Although grades of C+, C, and C- are below the graduate standard, they may be counted as credit toward a master's degree with the specific written approval of the department if taken at PSU after the term of formal admission to the graduate program. Grades of D or F indicate clearly unacceptable work and cannot be applied to graduate degree requirements. Audited courses cannot be used to meet any requirement for master's degrees.

A grade of IP (In Progress) may be used for 501 Research and for 506 Project when a student is progressing in an acceptable manner toward completion of the work; final grades for 501 and 506 credits are submitted by the instructor via an online grade change. An IP grade must be used for 503 Thesis when a student is progressing in an acceptable manner; final grades for 503 credits are assigned by the instructor on the Recommendation for the Degree form (GO-17M) and posted to the student's transcript after approval of the thesis and certification for graduation by the Office of Graduate Studies.

A student with any M (Missing) grades in PSU graduate courses that could potentially be letter graded will not be certified for graduation, even if the courses are not applied to the student's degree program.

All coursework applied to the master's degree program must be completed within the seven years prior to the awarding of the degree (e.g., a course started in the fall term of 2011 will be beyond the seven-year limitation at the close of fall term 2018).

Degree application

Students must apply for graduation by the first Friday of the anticipated term of graduation; see the Graduate Candidate Deadlines for specific due dates. There is a required \$30 fee per application as well as a \$2 service charge.

As a one-time courtesy, students who do not complete degree requirements can have their application for graduation carried forward to a future term (typically the next term, but it could be at maximum up to one year in

advance). To request that an application for graduation be carried, students must contact the Office of Graduate Studies in writing and provide an explanation for the graduation delay. If students do not graduate a second time, the application for graduation will be dropped; they will then need to reapply for graduation by the appropriate deadline (and will be assessed a new application fee).

Validation of out-of-date graduate credit

A PSU course more than seven years old at the time of graduation, but no more than ten years old at the time of graduation, may be used toward master's degree requirements after a successful validation exam (for example, a course taken in fall 2008 may be validated for a graduation term no later than fall 2018). A separate validation examination must be given for each course, in accordance with the full requirements listed on the GO-15 form. Departments are expected to limit validation examinations to those courses that are current and relevant in the discipline and meet the current requirements of the master's degree program. Validated courses are limited to one third of the program requirements (e.g., 15 credits total in a 45-credit program). Each examination attempted, regardless of result, has a fee of \$50.00, which will be credited to the department giving the exam. Payment must be arranged in advance of the exam through the Office of Graduate Studies and Cashiers.

In very unusual cases, with the specific agreement of both the student's department and the department most equivalent to the original course department, a student may validate a graduate course from another regionally accredited institution, in accordance with the full requirements listed on the GO-15 form.

Human Subjects Research Review Committee

All research involving human subjects conducted by faculty, staff, or students in any program at PSU must have prior approval of the Human Subjects Research Review Committee (HSRRC). This policy applies to all research under the auspices of the University, including surveys and questionnaires, whether supported by grant, contract, gift, University, or personal funds. Even if a student's research is exempt from full HSRRC review, the student must still file an application with the HSRRC. The decision to waive review is made by the HSRRC chair or a designated member of that committee. HSRRC applications may be obtained from the Office of Research and Strategic Partnerships. The student should allow a minimum of six weeks for the approval process. A student cannot have a thesis committee appointed until HSRRC approval is granted.

Final examination

If a final examination is required by the student's department, it shall be taken after successful completion of

any required second language examination and after at least 30 credits have been completed. The examination is not a re-examination over coursework but rather a test of the candidate's ability to integrate material in the major and related fields, including the work in any thesis or research project. A minimum of 1 graduate credit of registration is required when taking any final oral or written examination.

Oral examinations

In the case of a non-thesis oral examination, the committee shall consist of at least two members of the student's department, including the student's adviser. At the discretion of the department, a faculty member from another department may be added. For M.A.T. and M.S.T. students, one additional member of the committee is required to be a faculty member from the Graduate School of Education or a faculty member with pedagogical expertise in the student's discipline.

Non-thesis final oral examinations (including final project presentations) can only be held during regular academic terms, i.e., not between terms. Examinations must be scheduled and completed by the Friday of finals week for graduation in that term. For summer term graduation, the deadline applies to the regular eight-week summer session dates, i.e., exams must be scheduled and completed by the Friday of the eighth week of summer term.

Passing of the final oral examination requires a majority approval. If the student fails the entire examination or any section thereof, the department may dismiss the student from the master's program or permit the student to repeat the entire examination, or the section that was failed, after a minimum of three months. The results of the second examination are final.

Written examinations

If a final written examination is required, it can only be held during regular academic terms, i.e., not between terms. Examinations must be scheduled and completed by the Friday of finals week for graduation in that term. For summer term graduation, the deadline applies to the regular eight-week summer session dates, i.e., exams must be scheduled and completed by the Friday of the eighth week of summer term.

If the student fails the entire examination or any section thereof, the department may dismiss the student from the master's degree program or permit the student to repeat the entire examination, or the section that was failed, after a minimum of three months. The results of the second examination are final.

Thesis

The presentation of a thesis as partial fulfillment of the requirements for the master's degree is required in certain

departments and is an option in others. Each school, college, and department defines the nature of research and scholarship accepted for a thesis, but in all cases a high level of resourcefulness, productivity, and mature perception of the discipline is expected. The quality of the culminating work must meet University standards and reflect those of other leading universities. Although the thesis is not required to show original results, it must reveal independent investigation, including the knowledge and application of the accepted methods of scholarship and research methodology. The thesis represents the independent work of the student and must be developed under the direction of the thesis adviser.

The thesis committee must be approved by the Office of Graduate Studies using the GO-16M form in advance of the thesis defense. The committee must consist of at least three and not more than five faculty members. The chair of the thesis committee must be regular, full-time PSU instructional faculty, tenured or tenure track, assistant professor or higher in rank; the other committee members may be non-tenure track or adjunct faculty. Two of the committee members (the committee chair and one other member) must be from the student's department; the third member may be from the student's department or may be PSU faculty from another department or OHSU faculty. If it is necessary to go off campus for one additional committee member with specific expertise not available among PSU faculty, a CV for that proposed member must be presented with the GO-16M form; that member must be in addition to the required three PSU faculty members. All committee members must have master's degrees or higher.

Students must be registered for at least 1 graduate credit in every term in which they are working on any phase of their thesis, including data development or collection, writing, revision, defense, and finalization through approval by the Office of Graduate Studies. Students must register for at least 6 to 9 credits of 503 Thesis in their department. (Since students must be continuously enrolled while working on the thesis, they frequently accumulate more than 9 credits of 503 Thesis. However, a maximum of 9 credit of 503 Thesis may be applied to the program of study.) IP (In Progress) is the interim grade reported until the thesis is defended and approved by the student's thesis committee. Final grades for thesis credits are not recorded until the thesis has been approved by the Office of Graduate Studies.

A thesis defense may be scheduled only during the regular academic terms, no later than five weeks prior to the close of the term of application for graduation in which the degree will be granted (i.e., must be completed four weeks before the beginning of finals week). For summer term graduation, deadlines apply to the regular eight-week summer session dates. Later completion will result in graduation in a subsequent term. The student must deliver a final draft of the thesis to all members of the approved committee no fewer than 14 days before the thesis defense.

A thesis defense must take place in a meeting with the student and the entire, appointed committee. While it is expected that all members should be physically present, remote participation is permitted under specific conditions. The student's oral presentation should not exceed 60 minutes. The thesis defense is open to the University faculty and may be open to the public at the department's discretion. Passing of the thesis defense requires a majority approval. If the student fails the thesis defense, the department may dismiss the student from the master's program or permit the student to hold a second defense after a minimum of three months. The results of the second defense are final.

The final thesis must be submitted to the Office of Graduate Studies not later than three weeks prior to the close of the term of application for graduation. See the Graduate Candidate Deadlines for specific dates. For details about thesis formatting and submission, see the Thesis and Dissertation Information available from the Office of Graduate Studies.

Doctoral degrees

Preliminary examination

Early in the doctoral program the student may be required to take preliminary examinations. The scope and content of the examination, and the standard of performance, is determined by the doctoral program.

Advisory committee

An advisory committee for the doctoral degree student should consist of at least three faculty members representative of the student's field of study. When a student enters the doctoral program, a faculty adviser will be designated by the program director to advise the student and to meet in regular consultation concerning the program of study and research. The additional members of the advisory committee will be appointed after successful completion of 9 credits and not later than six months prior to the completion of the comprehensive examinations.

Language requirement

For the Ph.D. degree, the student may be required to demonstrate competency in at least one second language. This requirement is determined by the governing unit of the student's program, department, or school. Any second language requirement must be completed before the comprehensive examinations.

Residency requirement

Residency for a doctoral degree program can be satisfied in one of the following ways:

- Three terms of full-time enrollment (minimum 9 graduate credits applicable to the degree program each

term) during the first two years after admission to the program. This may include one or more summer terms.

- Six terms of part-time enrollment (minimum 1 graduate credit applicable to the degree program each term) during the first two years after admission to the program. This may include one or more summer terms.
- A doctoral student who was enrolled in the same major at PSU, and whose matriculation to the doctoral program immediately follows (within one calendar year) the master's degree program, may fulfill the residency requirement during the period in which the student was enrolled in the master's program.

Coursework and doctoral program of study

The doctoral program of study includes coursework, research, internships, and/or seminar credits according to the requirements of the individual doctoral program. A minimum 27 credits of 603 Dissertation is required for all Ph.D. students; a minimum of 18 credits of 603 Dissertation is required for all Ed.D. students. A minimum of three academic years of graduate study beyond the bachelor's degree (equivalent to 81 quarter credits minimum) is required for all doctoral degrees.

For doctoral degrees, pre-admission and transfer limits are at the discretion of the individual doctoral programs. Transfer credits are approved via a GO-21D form submitted to the Office of Graduate Studies. See Pre-admission and transfer credit (p. 46) for detailed information about pre-admission and transfer credits. While potentially all coursework for the degree can be transferred from another institution, the following items must be completed at PSU: comprehensive exams, residency, proposal, advancement to candidacy, and dissertation research.

A student must have a minimum 3.00 GPA on the courses applied to the program of study, as well as a minimum 3.00 GPA in all graduate-level courses taken at PSU, in order to graduate. Doctoral programs may establish a more rigorous standard. Although grades of C+, C, and C- are below the graduate standard, they may be counted as credit toward a doctoral degree with the specific written approval of the doctoral program. Grades of D or F indicate clearly unacceptable work and cannot be applied to graduate degree requirements. Audited courses cannot be used to meet any requirement for doctoral degrees.

A grade of IP (In Progress) may be used for 601 Research and for 606 Project when a student is progressing in an acceptable manner toward completion of the work; final grades for 601 and 606 credits are assigned by the instructor via an online grade change. An IP grade must be used for 603 Dissertation when a student is progressing in an acceptable manner; final grades for 603 Dissertation credits are assigned by the instructor on the Recommendation for the Degree form (GO-17D) and

posted to the student's transcript after approval of the dissertation and certification for graduation by the Office of Graduate Studies.

All coursework on the program of study, with the possible exception of seminar and internships, must be completed before a student can be advanced to doctoral candidacy. All coursework on the program of study must be satisfactorily completed before graduation.

A student with any M (Missing) grades in PSU graduate courses that could potentially be letter graded will not be certified for graduation, even if the courses are not applied to the student's degree program.

For students entering a doctoral program with a master's degree, a maximum of five years will be allowed from admission to completion of all required comprehensive examinations. For students entering with a bachelor's degree, a maximum of two additional years will be added to this limit, for a maximum of seven years from admission to completion of all comprehensive examinations. Failure to meet this time limit will result in cancellation of admission to the doctoral program.

Comprehensive examination

Before advancement to candidacy and not less than one academic year before all requirements for the doctoral degree are expected to be completed, the student must pass a series of comprehensive examinations in the field of specialization. The examinations may be written, oral, or both. The comprehensive examinations may not be taken until the language requirement, if any, and substantially all the coursework for the degree have been completed. Students must be registered for a minimum of 1 graduate credit during the term comprehensive exams are taken. Comprehensive exams are scheduled and administered in accordance with the established rules of the program, which must be made publicly available to students via the program's website or doctoral student handbook. Comprehensive exams can only be offered during regular academic terms, i.e., not between terms. The doctoral program must notify the Office of Graduate Studies the student has passed comprehensive exams by submitting the GO-22 form.

If the student fails the entire comprehensive exam or any section thereof, the doctoral program may dismiss the student from the degree program or permit the student to repeat the entire examination, or the section that was failed, after a minimum of three months. The results of the second examination are final.

A maximum of three years will be allowed from the completion of comprehensive examinations to advancement to candidacy. Failure to meet this time limit will result in cancellation of admission to the doctoral program.

Dissertation proposal

After passing the comprehensive examination and identifying a dissertation topic, a dissertation committee is appointed and the student must pass a proposal defense. The dissertation committee will take the place of the advisory committee and the faculty adviser is superseded by the dissertation adviser. The dissertation committee must be approved by the Office of Graduate Studies using the Appointment of Doctoral Dissertation Committee form (GO-16D).

A doctoral student must be in Regular status in order to have a dissertation committee appointed. A University Conditional status will be automatically converted to Regular status upon the completion of 9 letter-graded graduate credits with a GPA of 3.00 or higher after admission. Department Conditional status can only be removed by the doctoral program. See Admission statuses (p. 42) for detailed information about Regular, University Conditional, and Departmental Conditional statuses.

The dissertation committee must consist of four to six PSU faculty members: the dissertation adviser, a minimum of two and a maximum of four regular members, and the Graduate Office Representative. The chair of the dissertation committee and the Graduate Office Representative must be regular, full-time PSU instructional faculty, tenured or tenure track, assistant professor or higher in rank; the other two to four committee members may include non-tenure track or adjunct faculty and/or members of the OHSU faculty. If it is necessary to go off-campus for one committee member with specific expertise not available among PSU faculty, a curriculum vitae (CV) for that proposed member must be presented with the GO-16D form. This off-campus member may substitute for one of the two to four regular committee members. All committee members must have doctoral degrees. At the discretion of the program, the designation of co-chair can be requested on the GO-16D form for one regular member of the committee. The designation of co-chair recognizes the significant academic advising role of the committee member, but oversight of the process and procedures and all administrative responsibilities remains with the chair.

No proposal defense shall be valid without a dissertation committee approved by the Office of Graduate Studies. The GO-16D form should be submitted to the Office of Graduate Studies a minimum of six weeks in advance of the estimated date of the dissertation proposal meeting. The student must deliver a draft of the dissertation proposal to all members of the approved committee no fewer than 14 days before the proposal defense.

A dissertation proposal must take place in a meeting with the student and the entire, appointed committee. While it is expected that all members should be physically present, remote participation is permitted under specific conditions. The student will make an oral presentation of the written proposal for discussion, evaluation, and suggested

modification. The final proposal submitted to the committee for approval should be sufficiently detailed and clear to provide a blueprint for the study to follow. The proposal is expected to include the following:

1. General nature and present status of knowledge of the problem.
2. The theoretical and empirical framework within which the proposed problem exists.
3. The significance of the proposed research and its likely contributions.
4. The research methodology to be used.

The doctoral program recommends the student for advancement to candidacy once the dissertation proposal has been approved.

Human Subjects Research Review Committee

After proposal approval, the student submits a Human Subjects Research Review Committee (HSRRC) application to the Office of Research and Strategic Partnerships if human subjects are involved in the research in any way. A student cannot be advanced to candidacy until HSRRC approval is granted. All research involving human subjects conducted by faculty, staff or students in any program at PSU must have prior approval of the Human Subjects Research Review Committee. This policy applies to all research under the auspices of the University, including surveys and questionnaires, whether supported by grant, contract, gift, University, or personal funds. Even if a student's research is exempt from full Human Subjects Research Review Committee review, the student must still file an application with the HSRRC. The decision to waive review is made by the HSRRC chair or a designated member of the HSRRC. The student should allow a minimum of six weeks for the approval process.

Advancement to Candidacy

A student is advanced to candidacy after successful defense of the dissertation proposal and with the recommendation of the doctoral program, after verification of the student's program of study, and after HSRRC approval has been granted (if applicable). The doctoral program must request advancement to candidacy by submitting the GO-23 form to the Office of Graduate Studies. The Dean of Graduate Studies retains final approval authority for advancement to candidacy.

A doctoral candidate has a minimum of four months and a maximum of five years from the effective date of advancement to candidacy to complete all requirements for graduation, including defense of the dissertation and its final approval by the Office of Graduate Studies (doctoral programs may have stricter requirements). Candidates must be continuously enrolled during that period. Failure

to meet this time limit will result in cancellation of admission to the doctoral program.

Dissertation preparation

With guidance of the dissertation committee, the candidate presents a dissertation setting forth the results of original and independent investigation. The dissertation must constitute a contribution to knowledge, significantly enlarging, modifying, or reinterpreting what was previously known. Until the degree is granted, the student enrolls for the number of graduate credits appropriate to the amount of University services utilized, as determined by the dissertation adviser, with a minimum of 1 graduate credit each term. Ph.D. students must register for a minimum of 27 credits of 603 Dissertation before graduation; Ed.D. students must register for a minimum of 18 credits of 603 Dissertation before graduation. Continuous enrollment of a minimum 1 graduate credit is required through the term a student graduates, even if this results in more than 27 (18) credits of 603 Dissertation at the time of graduation. Ph.D. and Ed.D. students should only register for 603 Dissertation credits after advancement to candidacy.

Degree application

Students must apply for graduation by the first Friday of the anticipated term of graduation; see the Graduate Candidate Deadlines for specific due dates. There is a required \$30 fee per application as well as a \$2 service charge.

As a one-time courtesy, students who do not complete degree requirements can have their application for graduation carried forward to a future term (typically the next term, but it could be at maximum up to one year in advance). To request that an application for graduation be carried, students must contact the Office of Graduate Studies in writing and provide an explanation for the graduation delay. If students do not graduate a second time, the application for graduation will be dropped; they will then need to reapply for graduation by the appropriate deadline (and will be assessed a new fee).

Dissertation defense

After preparation of the written dissertation, the candidate's dissertation committee will conduct a dissertation defense. A dissertation defense may be scheduled only during the regular academic terms, no later than five weeks prior to the close of the term of application for graduation in which the degree will be granted (i.e., must be completed four weeks before the beginning of finals week). For summer term graduation, deadlines apply to the regular eight-week summer session dates. Later completion will result in graduation in a subsequent term. The student must deliver a final draft of the dissertation to

all members of the approved committee no fewer than 14 days before the dissertation defense.

The dissertation defense, which is open to the public, is the culminating experience in the doctoral studies. The candidate is expected to prepare an oral presentation on the research methodology and results. The oral presentation should not exceed 60 minutes. Following the oral presentation, the candidate must defend the dissertation as a worthy contribution to knowledge in its field and must demonstrate a mastery of the field of specialization as it is related to the dissertation. The questioning and discussion are for the purpose of: (1) further enlightenment of the candidate and the committee of the significance and limitations of the research, and (2) demonstration that the candidate has met the high expectations of the University for the awarding of the doctoral degree.

A dissertation defense must take place in a meeting with the student and the entire, appointed committee. While it is expected that all members should be physically present, remote participation is permitted under specific conditions. For dissertation approval, there may be no more than one dissenting vote on the dissertation defense. If the student fails the dissertation defense, the doctoral program may dismiss the student from the program or permit the student to hold a second defense after a minimum of three months. The results of the second defense are final.

The final dissertation must be submitted to the Office of Graduate Studies not later than three weeks prior to the close of the term of application for graduation. See the Graduate Candidate Deadlines for specific dates. For details about thesis formatting and submission, see the Thesis and Dissertation Information available from the Office of Graduate Studies.

Time limitations

For students entering a doctoral program with a master's degree, a maximum of five years will be allowed from admission to completion of all required comprehensive examinations. For students entering with a bachelor's degree, a maximum of two additional years will be added to this limit, for a maximum of seven years from admission to completion of all comprehensive examinations. Doctoral programs may have stricter requirements. Failure to meet this time limit will result in cancellation of admission to the doctoral program.

A maximum of three years will be allowed from the completion of comprehensive examinations to advancement to candidacy. Doctoral programs may have stricter requirements. Failure to meet this time limit will result in cancellation of admission to the doctoral program.

A doctoral candidate has a minimum of four months and a maximum of five years from the effective date of advancement to candidacy to complete all requirements for graduation, including defense of the dissertation and its

final approval by the Office of Graduate Studies. Doctoral programs may have stricter requirements. Candidates must be continuously enrolled during that period. Failure to meet this time limit will result in cancellation of admission to the doctoral program.

A TO Z LIST OF STUDENT SERVICES

Advising & Career Services

Advising & Career Services
402 University Services Building
503-725-4005
www.pdx.edu/advising-career-services

Advising & Career Services provides career exploration and choice, as well as job search support to all PSU students and alumni. Services include assistance with choice of majors and/or careers; workshops on career choice and job search strategies; internship information; Handshake, a jobs and internship database; career fairs and employer information sessions through the year; resume and cover letter critiques; and referrals to other campus resources.

Box Office

Box Office
120 Smith Memorial Student Union
Broadway Lobby
503-725-3307
www.pdx.edu/boxoffice

The Portland State Box Office is your one-stop shop for event tickets, campus information and locker rentals. We serve as the Information Desk for the university, and sell tickets for university events and external events held at Portland State venues, ranging from commencement ceremonies and Viking Athletics' games to student-organized functions and cultural events. Purchase event tickets online at pdx.edu/boxoffice or in person at 120 SMSU in the Broadway lobby of the Smith Memorial Student Union.

Short-term and long-term general lockers are available for rent all year round through the Box Office. Lockers are located in Cramer Hall and Science Building One (SB1). No need to bring your own lock—the lockers have built-in locks with combinations for your convenience.

Campus Public Safety Office

Campus Public Safety Office
503-725-4407 (24/7)
503-725-4404 (emergencies only)
633 SW Montgomery
www.pdx.edu/cpso

Portland State University Campus Public Safety currently has an allocated force of 14 sworn police officers, and 18 professional staff. Our police officers have graduated from a Department of Public Safety Standards and Training (DPSST) academy and are empowered by section 161.015 of the Oregon Revised Statutes. Sworn officers possess the same authority and adhere to the same state-mandated standards, as municipal police officers.

Whether on foot, behind the wheel of a patrol car, or on bike, officers are here to protect and serve the campus community 24-hours a day, every day of the year. Officers take pride in delivering superior law enforcement services to the University community.

Our Public Safety Officers have Special Campus Safety Officer authority under 133.235 in the Oregon Revised Statutes. Officers engage in preventative patrol to observe and report, may respond to calls for service that do not require the exercise of police authority.

Our department has a trained and experienced Campus Police Detective to assist in complex investigations, including sexual assault investigations.

Campus Dispatch is a 24-hour central communications hub located at 633 SW Montgomery that provides the University community with access to a myriad of resources both internally and externally, including but not limited to, escorts, suspicious activities, medical emergencies, or crime reporting.

Public Safety also provides an annual report on October 1st on the reported crimes occurring in the previous calendar years. Data is collected from a variety of sources, including PPB and various University department; DOSL, ResLife, Athletics, HRC, SALP, GDI and the WRC.

Portland State University currently has over 27,229 registered students, and over 6,944 faculty and staff members. Our officers and dispatchers handle over 3,363 calls for service a year and addresses crime and quality of life issues. We are responsible for providing physical security services to Portland State University and to work closely with the local, state, and federal police agencies to provide a safe and healthy community for learning.

Campus Recreation

Campus Recreation
Academic and Student Rec Center
1800 SW Sixth Avenue
Portland, OR 97201

503-725-5127**campusrec@pdx.edu**www.pdx.edu/recreation

Campus Rec creates an environment where quality recreation and wellness programs inspire, empower and educate. We want to create a healthy, happy, engaged Portland State community. All Portland State students are members and we also offer faculty, staff, alumni and plus one memberships.

Good health, memorable experiences and learning are at your fingertips. Come play with us!

Aquatics and Safety**503-725-5129**www.pdx.edu/recreation/aquatics-and-safety

We invite you to experience our state-of-the-art, 25-yard pool and hop into our 10-person spa for a quick soak. Lap swim, open rec swim, women-only swim and special events are available to members for free. Adult swim clinics, youth swim lessons, CPR/AED courses, first aid courses and lifeguard certification courses are available at a cost.

Fitness and Health Promotion**503-725-2959**www.pdx.edu/recreation/fitness-and-health-promotion

Get fit and stay healthy with over 50 complimentary drop-in Group X fitness classes, an affordable personal training program, an indoor track and nearly 200 pieces of weightlifting and cardio equipment. Health promotion engages the entire campus community with annual events like Walktober and the Nourish Wellness Fair.

Inclusive Rec**503-725-2927**www.pdx.edu/recreation/inclusive-rec

Campus Rec celebrates diversity, inclusiveness, and authenticity in all our programs. Our Inclusive Rec helps create a community that welcomes everyone by offering accessible spaces, programs and equipment, including outdoor trips, adaptive climbing and swimming, wheelchair sports, goalball, open inclusive rec time and youth events for the entire PSU community.

Intramurals**503-725-5647**www.pdx.edu/recreation/intramurals

Intramural leagues offer team and singles competitions in a variety of sports. Gather a group of friends or sign up as a free agent -- all are welcome to participate. This is a great opportunity to get involved on campus, make new friends and exercise in a safe, fun environment.

Outdoor Program**503-725-5668**www.pdx.edu/recreation/outdoor-program

The Outdoor Program helps students experience the beautiful Pacific Northwest. We offer seasonal single- and multi-day trips, an equipment rental center with outdoor gear at affordable rates, and outdoor workshops and certification courses. The Outdoor Program also manages the 32-foot climbing wall located inside the Rec Center. Members are invited to participate in climbing classes, events and competitions.

Rec Clubs**503-725-2938**www.pdx.edu/recreation/rec-clubs

Rec Clubs are student-led and provide opportunities for recreation and intercollegiate competition between students of all skill levels. Don't see a sport you're looking for? You can start a Rec Club of your own. Our 30+ Rec Clubs are community oriented, safe, sustainable, diverse, accessible and educational.

Commencement**E-mail: commencement@pdx.edu****www.pdx.edu/commencement**

"Graduation" and "Commencement" are terms of art at PSU. "Graduation" means actually fulfilling your degree requirements resulting in a diploma. In other words, "Graduation" is the technical obtainment of credits to receive a degree.

"Commencement" is the symbolic ceremony marking the closing of your academic career where you receive commendation for your hard work at PSU. It is an opportunity for you, your family, friends, and the PSU community to celebrate your accomplishment. Official diplomas are mailed to the student after their graduation term. Details about submitting an application to graduate, and registering for one of Portland State's Commencement ceremonies can be found on the Commencement website.

Committee for Improving Student Food Security**<https://www.pdx.edu/student-access-center/>**

Student food security is an integral element of a sustainable and equitable Portland State University (PSU) community. The Committee for Improving Student Food Security (CISFS) seeks to improve PSU students' ability to access affordable, nutritious, culturally relevant food. This will be achieved through fostering community

partnerships, increasing awareness, addressing barriers through policy advocacy, and using data to inform and build capacity for action.

Cultural Resource Centers

Cultural Resource Centers

Smith Memorial Student Union

1825 SW Broadway

Suite 228

Portland, OR 97201

503-725-5351

cultures@pdx.edu

www.pdx.edu/cultural-resource-centers

The Cultural Resource Centers create a student-centered inclusive environment that enriches the university experience. We provide student leadership, employment, and volunteer opportunities; student resources such as computer labs, event, lounge and study spaces; and extensive programming. We value diversity, social justice, cultural traditions, student identities, success and leadership. All PSU students are welcome in our spaces!

La Casa Latina Student Center

Smith Memorial Student Union

1825 SW Broadway

Suite 229

Portland, OR 97201

503-725-6710

www.pdx.edu/cultural-resource-centers/la-casa-latina-student-center

La Casa Latina Student Center (LCL) is a hub on campus where Latino/a students and their allies come together to build and connect with community, develop leadership skills, empower their individual and collective identities, and participate in services that support academic success. The mission of the La Casa Latina Student Center is to attract Latino/a students to Portland State University and to provide cultural, social, and academic services and programs that enhance the quality of Latino/a student life. We seek to raise awareness about the rich diversity of Latino/a culture across campus. All PSU students are welcome!

Multicultural Student Center

Smith Memorial Student Union

1825 SW Broadway

Suite 228

Portland, OR 97201

503-725-5342

www.pdx.edu/cultural-resource-centers/multicultural-student-center-0

The Multicultural Student Center provides a space where students can develop cultural competency through student engagement, programming, and meaningful dialogue;

participate in events that explore our intersectional identities; including those focused our multiracial, Middle Eastern/North African, and international student populations; access resources such as a computer lab, student leadership opportunities, and space to relax and study; and partake in a forum for collaborative cultural, education, and social experiences at PSU and beyond. All PSU students are welcome!

Native American Student and Community Center

710 SW Jackson St.

503-725-9695

nascc@pdx.edu

www.pdx.edu/cultural-resource-centers/native-american-student-community-center

The Native American Student & Community Center (NASCC) is a gathering space to celebrate and empower student success through culturally relevant programming, academic support, and inter-generational community engagement to preserve and perpetuate inter-tribal connection for Native American/Alaskan Native/Pacific Islander students and our allies through tradition, ceremony, and storytelling. The Center currently houses four student groups, has a ten station computer lab, and quiet study space for students. All students are welcome!

Pacific Islander, Asian & Asian American Student Center

Smith Memorial Student Union

1825 SW Broadway

Suite 235

Portland, OR 97201

503-725-9391

www.pdx.edu/cultural-resource-centers/pacific-islander-asian-asian-american-student-center

The Pacific Islander, Asian and Asian American (PIAAA) Student Center at Portland State University offers an engaging and accepting space to address the diverse and changing needs of our Asian and Pacific Islander student communities. PIAAA strengthens the identity of API students through accessible programming, inter-cultural community building, and social justice education. All students are welcome!

Pan-African Commons

Smith Memorial Student Union

1825 SW Broadway

Suite 236

Portland, OR 97201

503-725-9371

www.pdx.edu/cultural-resource-centers/pan-african-commons

The Pan-African Commons (PAC) cultivates cultural, personal, academic, and professional development and

opportunities through programming and resources that foster empowerment, enrichment, and principled solidarity that advocates liberation among peoples of the African diaspora. All students are welcome!

Dean of Student Life

Dean of Student Life
433 Smith Memorial Student Union
503-725-4422
askdosl@pdx.edu
www.pdx.edu/dos

The Office of the Dean of Student Life (DOSL) fosters student engagement, learning, and success through various programs and resource centers. DOSL also oversees Student Conduct & Community Standards and the CARE program. A student would come to DOSL when they have a conduct issue, are experiencing difficulties outside of the classroom that affects their academic success, would like to get involved in campus life, or have a question/concern and don't know with whom to speak.

Disability Resource Center

Disability Resource Center
116 Smith Memorial Student Union
503-725-4150
drc@pdx.edu
www.pdx.edu/drc

The Disability Resource Center (DRC) serves students with all disability types (learning, ADHD, brain injuries, psychological, chronic medical, physical, visual, hearing, autism/aspergers, developmental, and others). We provide students with academic or other accommodations, removing or minimizing barriers in the environment so that they have the ability to be successful at PSU. We advocate on behalf of students as necessary in order to ensure other PSU faculty and staff are working toward the same goals in helping the student to the greatest extent possible. We also connect the student with other on- and off-campus resources as needed. Information about disability shared with the DRC is kept confidential (except for in extreme situations where sharing the information with emergency personnel or others is critical). DRC registration status does not become part of any permanent records or transcripts. Come visit us in the DRC and learn more!

Diversity and Multicultural Student Services

Diversity and Multicultural Student Services
Smith Memorial Student Union
1825 SW Broadway
Suite 425
Portland, OR 97201
503-725-4457
www.pdx.edu/dmss

Diversity and Multicultural Student Services (DMSS) serves and empowers student populations whose access, retention, academic success, and graduation are most challenged by socio-historical factors and contemporary inequities.

Our mission at DMSS is to provide an accessible inclusive environment that enriches the university experience and engages students, their families, and the community. There are seven departments within the DMSS unit: Multicultural Retention Programs (p. 62), Student Legal Services (p. 68), Disability Resource Center (p. 61), TRIO Student Support Services (p. 69), TRIO Pre-College Programs (p. 69), Cultural Resource Centers (p. 60), and the Veterans Resource Center (p. 70).

Office of Global Diversity and Inclusion

503-725-5919
 www.pdx.edu/diversity

The Office of Global Diversity & Inclusion includes the Office of Equity & Compliance and the Office of Diversity Advocacy.

The Office of Global Diversity & Inclusion's mission is to create a positive campus climate that celebrates diversity, builds partnerships, promotes equity, and supports the entire campus community.

The Office of Global Diversity & Inclusion's vision is to promote the value diversity brings to the campus by helping to create an inclusive and culturally respectful university environment.

Diversity Action Plan Objectives:

1. Produce graduates who can be leaders in a global community.
2. Ensure that diversity is incorporated into the curriculum.
3. Create an environment that is welcoming, inclusive and diverse.
4. Create more robust communication channels to bring the world to the campus and the campus to the world.

5. Endorse a cultural competency training plan campus wide.
6. Recruit and retain diverse faculty & staff.
7. Recruit and retain a greater number of historically underrepresented, underserved and international students.
8. Develop and support relationships with community, alumni and other partners.

For more detailed information about our functions, anti-discrimination policies, sexual harassment policy and complaint procedures, contact our office by phone at 503-725-5919, TTY 503-725-6504. The Office of Global Diversity & Inclusion is located in the Market Center Building, Suite 830. We are open Monday through Friday from 8:00 am to 5:00 pm.

Helen Gordon Child Development Center

Helen Gordon Child Development Center
1609 SW 12th Avenue
503-725-3092
www.pdx.edu/helen-gordon-center/

The Helen Gordon Child Development Center is a University-operated service that provides a quality educational laboratory preschool/extended day program for children 4 months to six years of age. The center is accredited by the National Academy of Early Childhood Programs, a division of the National Association for the Education of Young Children. The center is open from 7:30 a.m. to 5:30 p.m. daily. Children of PSU students, faculty, and staff are eligible for enrollment in the program. Enrollment is based on the date of application.

As a laboratory preschool/extended day program, the center enables students from education, psychology, and related fields to complete course requirements through observation, practicum, or research activities at the center. Interested students should contact the center's office.

Information Technology

Information Technology
Smith Memorial Student Union
1825 SW Broadway
Suite 18
503-725-HELP
www.pdx.edu/oit/help@pdx.edu

The Office of Information Technology (OIT) provides support for computing, networking, data storage, voice and data communication, multimedia, computer labs, classrooms, and audiovisual services. All faculty, staff, and students can receive support by calling, emailing, visiting the OIT website, or visiting the Helpdesk in SMSU 18.

Learning Center

The Learning Center strives to foster the learning process by empowering PSU students to accomplish their academic and personal goals. To do this, the Learning Center provides a variety of academic support services for students: peer tutoring in person and via eTutoring; College Success courses and academic coaching to help create measurable goals for scholastic and personal success. All Learning Center programs are open to undergraduate, post-baccalaureate, and graduate students. The Learning Center is certified by the College Reading and Learning Association.

Little Vikings

Little Vikings
Flexible Childcare at PSU
Epler Hall, 1st Floor
503-725-8800
www.littlevikings.org

The mission of the Little Vikings Drop-In Childcare Center is to support students with children and the university community with the means to meet their educational, personal, and professional commitments and demands. The mission is accomplished by providing quality, affordable, accessible, and safe occasional, reserved, and drop-in childcare.

Multicultural Retention Services

Multicultural Retention Services

Smith Memorial Student Union
 1825 SW Broadway
 Suite 425
 Portland, OR 97201
 503-725-4457
www.pdx.edu/dmss/

Multicultural Retention Services (MRS) strives to ensure the academic success, retention, and graduation of students through culturally inclusive programs and services that are designed to build a strong sense of community and belonging. We provide academic support, advising, referrals, and advocacy for first generation, low-income, and/or historically underrepresented students.

Diversity Scholarship Program
 Smith Memorial Student Union
 1825 SW Broadway
 Suite 425

Portland, OR 97201
503-725-4457

www.pdx.edu/dmss/diversity-scholars

The purpose of the Diversity Scholarship Program is to expand and enrich Portland State's learning community by recognizing and supporting outstanding students from first generation and various cultural, ethnic and socio-economic backgrounds, with diverse talents, interests, and life experiences. The Diversity Scholarship Program is committed to helping students achieve their academic goals. The program promotes diversity and student participation in campus life through volunteerism and academic excellence.

African American Student Services

Smith Memorial Student Union
1825 SW Broadway
Suite 425F
Portland, OR 97201
503-725-4457

www.pdx.edu/dmss/AA

African American Student Services (A.A.S.S) provides academic support services, advocacy and campus navigation. We provide connections to communities of the African diaspora and services and resources for incoming freshman, transfer and continuing students. A.A.S.S also provides a supportive and welcoming environment for students from the African diaspora as they acclimate to the PSU academic environment or continue their education at PSU. A.A.S.S. assists students who are seeking a cultural connection at Portland State University through community building activities and connecting them to both PSU student groups and faculty, as these are essential components to achieving academic success.

Asian and Pacific Islander Student Services

Smith Memorial Student Union
1825 SW Broadway
Suite 425F
Portland, OR 97201
503-725-4457

www.pdx.edu/dmss/asian-and-pacific-islander-student-services

Asian Pacific Islander (API) Student Services supports students in the PSU Community by providing services in which students have access to advising, advocacy and support. We are here for those who seek to build a cultural connection to campus resources, organizations, and services, including API Staff and Faculty. We provide: opportunities for leadership development; referrals to API community resources; and transitional support for new students at PSU. API Student Services welcomes all students in the community who seek resources, support, and a sense of community that will enable them to feel confident and be successful students and leaders at PSU.

Latino/a Student Services

Smith Memorial Student Union
1825 SW Broadway
Suite 425
Portland, OR 97201
503-725-4457

www.pdx.edu/dmss/lss

Latino/a Student Services provides academic support services, advocacy and connections to campus and Latino/a community services and resources to new incoming freshman, transfer and continuing students. Latino/a Student Services provides a supportive and welcoming environment for Latino/a students as they transition to the PSU academic environment. Latino/a Student Services assists students who are seeking a cultural connection to the Portland State University campus by connecting them to student groups and faculty, an essential component to achieving academic success.

Native American Student Services

Smith Memorial Student Union
Multicultural Retention Services
1825 SW Broadway
Suite 425
Portland, OR 97201
503-725-5348

www.pdx.edu/dmss/nass

The Native American Student Services Program provides support for Native American and Alaskan Native students through general advising, guidance, advocacy and referrals to appropriate campus-based and Portland Metro resources, especially organizations serving Native American people. Native American Student Services connects students to opportunities for Native American cultural enrichment and social activities, both on campus and in the community.

Queer Resource Center

Queer Resource Center

458 Smith Memorial Student Union
503-725-9742
qrc@pdx.edu
www.pdx.edu/queer

The Queer Resource Center provides students along sexuality and gender spectra with the support they need to persist to graduation. The Queer Resource Center's vision is to facilitate a campus environment such that Portland State University is the higher education destination of choice for students, staff, and faculty along the spectra of sexuality and gender. The QRC provides direct advocacy for queer and trans students, hosts social and support hours, creates programming geared toward building and

connecting communities, and fosters a welcoming space with a library, computer lab, and lounge.

Office of the Registrar

**1914 SW Park Ave WH 121
503-725-3220**

www.pdx.edu/registration

The Registrar's Office provides enrollment, certification, and records management services to students, faculty, staff and the public. Specific areas of service include the following:

- Course Scheduling and Classroom Assignments
- Student Registration
- Student Records Maintenance
- Academic Transcripts
- Enrollment Verification & Degree Verification
- Degree Certification and Diploma Distribution
- Degree Audit System Management
- Veteran's Benefits Certification
- Residency Officer
- Transfer Course Articulation (credit evaluation)
- Scholastic Standards Committee petition process support
- Deadline Appeals Committee petition process support
- Academic Requirements Committee petition process support

Resource Center for Students with Children

**Resource Center for Students with Children
Smith Memorial Student Union
Suite 462**

**1825 SW Broadway
Portland, OR 97201
(503) 725-9878**

www.pdx.edu/students-with-children

The Resource Center for Students with Children offers integrated services that support students' goals to be effective parents while succeeding in their academic pursuits. Many students come to the Resource Center for Students with Children to seek support resources for on and off campus needs including applying for the Jim Sells Childcare subsidy program, which can pay up to 50% of childcare costs for eligible PSU students. There is also a Family Resource Lounge where students connect with their peers while their children play, and shop and receive clothes from our free children's clothing closet.

Ronald E. McNair Scholars Program

**Ronald E. McNair Scholars Program
M302 Smith Memorial Student Union
503-725-9740**

www.pdx.edu/mcnair-program/

The Ronald E. McNair Scholars Program at Portland State University works with undergraduates who want to pursue Ph.D. degrees. It introduces juniors and seniors who are first generation and low-income or members of under-represented groups to academic research and to effective preparation and strategies for getting into and graduating from Ph.D. programs.

The McNair Scholars Program has academic-year activities and a full-time summer research internship. Scholars take academic and skills-building seminars and workshops during the year, and each scholar works closely with a faculty mentor on original research in the summer. Scholars present their research findings at the McNair Summer Symposium and at other conferences, and are encouraged to publish their papers in the McNair Journal and other scholarly publications.

SHAC Student Health and Counseling

**Center for Student Health and Counseling (SHAC)
University Center Building
1800 SW 6th Avenue
Medical and Counseling (Suite 200): 503-725-2800
Testing (Suite 340): 503-725-5301
Dental (Suite 307): 503-725-2611**

www.pdx.edu/shac

The Center for Student Health and Counseling (SHAC) provides high quality, accessible medical, counseling, dental, testing, and health promotion services to PSU students. All students taking five (5) or more* in-load credit hours in a term are assessed a Student Health Fee which provides access to SHAC services, no matter what health insurance they carry. The Student Health Fee is assessed on a per-term basis and is non-refundable.

Students who are SHAC-eligible in Spring term, and either graduate in June or do not plan to attend summer term, can still use SHAC services through the summer on a fee-for-service basis.

Visit www.pdx.edu/shac for more information about SHAC's services.

*SHAC Dental Services is available to PSU students enrolled in one (1) credit hour or more per term.

SHAC Counseling Services

**Counseling Services
University Center Building 200
1800 SW 6th Avenue**

503-725-2800**www.pdx.edu/shac/counseling**

Counseling Services in the Center for Student Health & Counseling (SHAC) offers a variety of services designed to support the emotional well-being of PSU students. Services are provided by a professional staff of licensed psychologists, social workers, psychiatrists, and doctoral and master-level students in training. Services include: walk-in/triage services, brief individual and group therapy, emergency/crisis counseling, psychiatric assessment and treatment, psycho-educational workshops and trainings, and consultation. Counseling Services also offers comprehensive learning disability and ADHD assessment, and career assessment. For further information, visit www.pdx.edu/shac/counseling.

SHAC Dental Services

Dental Services

University Center Building Suite 307**527 SW Hall Street****503-725-2611****www.pdx.edu/shac/dental**

Dental Services in the Center for Student Health & Counseling (SHAC) is staffed by licensed, experienced professionals who provide dental care with the student's health and comfort in mind. PSU students enrolled in one (1) or more credit hours per term can access Dental Services on a fee-for-service basis. All fees are billed to the student's account. There is no student dental insurance plan, however the cost of services is greatly reduced compared to those of a private dental clinic. Dental Services' staff will submit claims to all private insurers that allow it. However, Dental Services is not responsible for the determination of benefits. Dentists make referrals if a student needs a specialist or more intensive dental treatment.

Some of SHAC's dental services include:

- Full comprehensive exams, x-rays, and cleanings
- Sealants
- Fillings (amalgam and white)
- Crowns, partials, and dentures
- Night guards
- Custom bleaching trays
- Oral surgery/wisdom teeth extraction
- Root canal therapy

For a comprehensive list of services and fees go to www.pdx.edu/shac/dental.

SHAC Health Promotion & Education

Health Promotion & Education

University Center Building 307**527 SW Hall Street****503-725-2800****www.pdx.edu/shac/healthpromotion**

Health Promotion & Education in the Center for Student Health & Counseling (SHAC) is a vital component of the healthcare continuum, taking a proactive approach to healthcare that stresses prevention, using various strategies, with the ultimate goal of keeping PSU students well. The focus of health promotion rests in comprehensive community level interventions aimed to influence the environment in which students live, work, and learn. This work is accomplished through health promotion programs (planned, organized events and activities that empower students over time to make informed decisions regarding their health); health education (providing health enhancing learning experiences for faculty, staff, and students through campus-wide events, workshops, and classes); and environmental approaches (policies and partnerships).

Health Promotion & Education has a peer health education team: the Wellness and Health Action Team (WHAT). The WHAT is a group of PSU students who take a peer mentor approach to talking about and educating students on healthy lifestyle choices.

Health Promotion & Education also manages the Mind Spa, a place students can reserve by appointment to relax, reduce stress, and learn stress and anxiety-reducing skills. The Mind Spa includes a yoga space, full-body massage chair, light therapy alcove, and a biofeedback station. For further information, visit www.pdx.edu/shac/healthpromotion.

SHAC Health Services

Health Services

University Center Building 200**1800 SW 6th Avenue****Suite 200****503-725-2800****www.pdx.edu/shac/health**

Health Services in the Center for Student Health & Counseling (SHAC) is staffed by licensed, experienced healthcare providers, Registered Nurses (RN's), and allied health professionals who are available for diagnosis, treatment, consultation, and referrals for illness and injury.

Health Services offers a range of primary care services including screenings for sexually transmitted infections (STIs), diagnostic laboratory work, women's health services, family planning counseling and contraception, x-ray, immunizations, and student travel consultation and preparation. Health Services also offers hormone replacement therapy (HRT) and trans medical services. Health Services also has RN's trained and licensed to provide examinations and support for sexual assault survivors.

If a student has a health question or concern and Health Services is closed, students can access a 24-hour Nurse Advice Line: 1-844-224-3145. For more information about SHAC's Health Services visit www.pdx.edu/shac/health.

SHAC Testing Services

Testing Services
University Center Building
527 SW Hall Street, Suite 340
Testing phone: 503-725-5301
www.pdx.edu/shac/testing

Testing Services in the Center for Student Health & Counseling (SHAC) coordinates and administers PSU and community based exams. PSU students and, in many instances members of the larger community, are eligible to use SHAC Testing Services. Most services are offered on a fee-for-service basis. SHAC Testing Services provides the following exams:

- PSU classroom make-up exams
- Accommodated testing for students with granted accommodations through the PSU Disability Resource Center
- PSU Credit by Exams
- Distance testing for other educational institutions
- National exams
- Contract and licensure community exams

For more information about SHAC Testing Services, visit www.pdx.edu/shac/testing

Smith Memorial Student Union

Smith Memorial Student Union
1825 SW Broadway St.
503-725-2663

smsu@pdx.edu

www.pdx.edu/student-union

As the living room of our urban campus, the Smith Memorial Student Union (SMSU) brings together students and the campus community by providing a center for ideas, programs, services and engagement that enriches the

social, cultural and educational environment of Portland State University. Smith is home to a variety of centers and services that provide opportunities for student learning, engagement, support and success.

Explore convenient options for eating, shopping and gathering in Smith. Find community in the cultural or resource centers. Hold meetings and events in our event spaces. Relax or study in one of our comfortable lounges. Be inspired by our art galleries. Enjoy a delicious meal at Smith's Kitchen. Sip coffee or tea at Smith's Place. Grab snacks and supplies at the University Market. Rent lockers and purchase event tickets at the Box Office. Play in the Viking Gameroom, Billiards & Bowling Alley. Cater your next meeting or event with PSU Caters.

This is the place where you belong. This is the place where you become. So be here now.

Student Activities and Leadership Programs

Student Activities and Leadership Programs
Smith Memorial Student Union
Suite 119
1825 SW Broadway
Portland, OR 97201
503-725-4452

asksalp@pdx.edu
www.pdx.edu/student-leadership/

Student Activities and Leadership Programs' mission is to enrich and integrate students' leadership and academic experiences in order to educate students to be ethical, socially just, and civically engaged leaders on campus and in their larger communities. The following programs are supported by SALP:

Portland State Programming Board
Suite M113B
1825 SW Broadway
Portland, Oregon 97201
(503) 725-5638

pdxprogramming@gmail.com
www.pdx.edu/student-leadership/portland-state-programming-board

Portland State Programming Board promotes community, pride and tradition through student-initiated cross-campus events. PSPB plans free events to enhance the experience of all PSU students' campus life experiences such as the annual Portland State of Mind Concert, quarterly Midnight Breakfast and Mid-Term Stress Relief, and weekly Parkway North Project series including movies, concerts, and other fun activities.

Student Government—ASPSU
Smith Memorial Student Union
Suite 117
1825 SW Broadway
Portland, Oregon 97201
(503) 725-8973

aspsu@pdx.edu
go.pdx.edu/aspsu

Greetings from the Associated Students of Portland State University! We serve as your Student Government, representing 29,000 students. The issues in which we constantly lobby for are lower tuition, lower fees, cultural competency and a safe campus for all. We aim to advocate for and represent the interest of students before internal and external bodies; facilitate formal needs of communication and interaction between students, student organizations, faculty and University administration; identify and develop services not offered by other divisions of the University; and provide a process for students to fully participate in the allocation of student incidental fees.

Student Community Engagement Center
Smith Memorial Student Union
Suite M113C
1825 SW Broadway
Portland, Oregon 97201
(503) 725-8132

volunteer@pdx.edu
www.pdx.edu/student-community-engagement

The Student Community Engagement Center is the hub for student civic engagement at Portland State University. Through meaningful service opportunities ranging from one-day service events to year-long service commitments, we strive to provide robust and varied co-curricular opportunities for all students at Portland State to engage with the community and become catalysts for change. If you are looking to volunteer, to fulfill hours for a class, explore something you are passionate about, or to make connections and explore Portland.

Student Media
Smith Memorial Student Union
Sub-basement
1825 SW Broadway
Portland, Oregon 97201
(503) 725-5687

smedia@pdx.edu
www.pdx.edu/student-media

Student Media is the home for Portland State's officially recognized student-run media organizations. Our aim is to provide a learning laboratory to develop skilled, ethical media creators and future professionals who serve the PSU

community by adding to its intellectual and cultural vibrancy. We have an array of roles for students interested in such areas as journalism, photography, video, audio, graphic design, creative writing, web development, and marketing.

Student Operated Services
Smith Memorial Student Union
Suite 119
1825 SW Broadway
Portland, Oregon 97201
(503) 725-4452

asksalp@pdx.edu
www.pdx.edu/student-leadership

The Student Operated Services provide critical services to the student, campus, and broader community while serving as an avenue for student employees to develop professional and leadership skills, some of which have been around for several decades. The five services are: 5th Avenue Cinema, Graphic Design Center, Littman + White Galleries, Portland State Professional Sound, and PSU Food Pantry.

Student Organizations
Smith Memorial Student Union
Suite 119
1825 SW Broadway
Portland, Oregon 97201
(503) 725-4452

asksalp@pdx.edu
www.pdx.edu/student-leadership

SALP is home to close to 200 different student organizations with new groups forming each year. Each student organization has a leadership team that works closely with SALP Student Organization Advisors to accomplish their group goals and grow as student leaders. If you are interested in joining a PSU student organization or starting your own, please visit the SALP Leadership Lounge located in Smith Memorial Student Union room 113M or review the following webpage for more information: <http://www.pdx.edu/student-leadership/join-or-start-student-organization>

Student Sustainability Center
Smith Memorial Student Union

M104
1825 SW Broadway
Portland, Oregon 97201
(503) 725-5598

psussc@pdx.edu
go.pdx.edu/ssc

Explore sustainability, build community, and strengthen your resume. Our programs, services, and activities are designed for students who want to create positive change in their own lives, on campus, and beyond. Choose your own adventure and thrive!

Student Ambassador Program

Student Ambassador Program

www.pdx.edu/undergraduate-admissions/visit-campus/ambassadors

The mission of the Student Ambassador Program is to promote Portland State University. We represent the student experience to current and future students and their families. We promote our diverse Portland State community to guests, administrators, faculty, staff, alumni, community partners, dignitaries, and friends of the University.

Student Ambassadors are students first and must be able to balance their academics with the demands of the program. The primary purpose of the program is to provide a leadership laboratory through which Student Ambassadors enhance and supplement their academic, communication, time management, and other professional skills.

Student Financial Aid and Scholarships

Office of Student Financial Aid and Scholarships
503.725.3461
www.pdx.edu/finaid

The Office of Student Financial Aid and Scholarships assists students, parents and families in applying for aid from federal, state and university program sources. Financial aid advisors are available to assist students and their families with any questions they may have, to help them understand the financial aid programs available, and to guide them through the application process.

Student Legal Services

Student Legal Services
Smith Memorial Student Union
Suite M343
1825 SW Broadway
Portland, OR 97201
503-725-4556
www.pdx.edu/sls/

Student Legal Services (SLS) provides free confidential and professional legal assistance to PSU students taking four or more undergraduate credits or three or more graduate credits and paying student fees. SLS handles a wide range of issues including: car/bike accidents, bankruptcy, consumer, debtor/creditor, criminal expungement, employment, immigration, family law, interpersonal violence, name/gender change, landlord/tenant, small claims court, and traffic citations.

Transportation and Parking Services

1812 SW 6th Ave, in the Academic & Student Recreation Center (ASRC)
503-725-3442
www.pdx.edu/transportation

Whether you travel by bike, bus, car, train, skateboard or your own two legs, our mission is the same: Get you where you need to go on campus in the most efficient, affordable, and sustainable manner possible.

PSU has three light-rail lines, two streetcar lines and over 20 bus routes converging on campus, so it should come as no surprise that public transit is the most popular and convenient option for students. Discounted transit passes, called FlexPasses, are available to current students at approximately 40% less than the standard TriMet fare. These passes can be purchased in person at PSU Transportation & Parking Services with a valid PSU photo ID card.

PSU is also an award-winning bicycle friendly campus. Bicycle parking racks are available outside all buildings on campus as a convenient, short-term parking option for

riders. PSU also provides a variety of indoor bike parking facilities, which allow you to park your bike in a space that's safe and dry. Best of all, you can keep your bike running smoothly with a visit to the PSU Bike Hub, an on-campus bike shop at the ASRC. At the Bike Hub, students can rent or buy a bike, drop off a bike for professional repair or learn to service it themselves, and purchase discounted gear to make the commute simple and enjoyable.

Need a car once in a while, but don't want the hassle of bringing one with you? Zipcar, Portland's largest carsharing company, has over 25 vehicles available in the university district. PSU students and employees can join this service at a discount. Also be sure to check out Car2Go, which offers one-way car trips in convenient smart cars located all over the central city, or ReachNow, where you can travel around town in the luxury BMW vehicles.

Parking on campus is very limited. For those who need to drive to campus, a variety of parking permits are available by the academic term and the academic year. Parking permits should be purchased in advance, prior to the term start, as they frequently sell out. Permits can be purchased online at pdx.edu/transportation approximately 4 weeks before the start of each term. Permits purchased online are sent by mail or held at will call. Be sure to print a temporary permit until your permit arrives or you can pick it up. Daily and hourly parking is also available for those who prefer to drive infrequently.

If you have any questions regarding your transportation options at PSU, please call Transportation & Parking Services at 503-725-3442 or visit www.pdx.edu/transportation. Or you can stop by the Transportation & Parking Services office at the ASRC.

TRIO Educational Talent Search

Educational Talent Search
1825 SW Broadway, M330
503-725-4458
www.pdx.edu/ubets

Educational Talent Search is a college access program sponsored by Portland State University, and funded through the U.S. Department of Education. Educational Talent Search serves 685 students from grades 6-12 in the Portland School District. The program mission is to identify, motivate, and assist students in their educational transitions into college. We primarily work with students who come from low-income families and/or will be the first in their family to pursue post-secondary education. We encourage students to stay in school and graduate, and to enroll in a community college, a four-year university, or a vocational/technical college.

TRIO – Student Support Services (SSS)

TRIO - Student Support Services (SSS)
Smith Memorial Student Union
Suite 425
1825 SW Broadway
Portland, OR 97201
503-725-3815
www.pdx.edu/dmss/TRIO-SSS

TRIO - Student Support Services is Portland State University's federally funded academic and personal support services for college students. It is designed to provide special assistance to those who have traditionally had limited access to a college education. Specifically, students who are low-income, who have a disability, or whose parents did not graduate with a bachelor's degree can receive assistance from SSS if they have a need for academic support. The program provides academic counseling, financial literacy, scholarship assistance, skill development workshops, study spaces, computer lab, writing assistance, and referrals that are designed to help the students achieve their educational goals.

TRiO Upward Bound

TRIO Upward Bound (UB)
1825 SW Broadway, M330
503-725-4458
www.pdx.edu/ubets

Upward Bound, a college preparation program for high school students, has been hosted at Portland State University since 1980. Funded by the U.S. Department of Education, Upward Bound is a year-round program designed to improve students' academic and study skills in high school, to develop their career and educational plans, and to help them enter and succeed in higher education. Upward Bound serves low income, first generation high school students from the following school neighborhoods: Jefferson, Roosevelt, and Madison.

University Welcome Center

University Welcome Center
Academic Student and Recreation Center
Suite 101
1800 SW 6th Avenue
503-725-5555

campusvisits@pdx.edu
www.pdx.edu/undergraduate-admissions/visit-campus

The University Welcome Center welcomes prospective students and the community to Portland State University. The University Welcome Center oversees:

- Daily and group campus tours

- Admissions information sessions
- Large visit programs for prospective students
- Admissions drop-in counseling for prospective students
- Student Ambassador Team supporting student recruitment and community outreach

University Housing & Residence Life

University Housing & Residence Life
The Broadway Building
Suite 210
625 SW Jackson Street
Portland, OR 97201
503-725-4375
housing@pdx.edu
www.pdx.edu/housing

University Housing and Residence Life (UHRL) provides PSU students with on-campus access to safe, convenient, student centered, and supportive living options. Our mission is PSU student success. Consequently, students who choose to live with us receive access to direct staff interaction and support, academic success programs and coaching, facilities support, and hassle-free billing directly to the student's account. The UHRL Main Office provides information about on-campus housing, housing applications and contracts, building maintenance, and housing charges for prospective and current residents. Students who choose to live on campus make that choice because on-campus living leads to student success, on time graduation, and an experience with memories to last a lifetime.

Veterans Resource Center

Veterans Resource Center
Smith Memorial Student Union
Suite 401
503.725.9807
psuvrc@pdx.edu
<http://www.pdx.edu/veterans/vrc>

The mission of the Veterans Resource Center (VRC) is to support all military-connected students with their transition from the military to academe. We provide academic support, professional development, VSOC counseling, information dissemination and wholistic health outings. In addition, we work in partnership with PSU staff, faculty and administrators who seek to better understand the unique cultural differences found in the veteran community and how we can all work together cohesively and respectfully for the success of the community.

The vision of the Veterans Resource Center is to foster a

comprehensive system of support for the students to enhance academic success towards graduation, professional and personal development. In addition, we strive to cultivate an environment within the VRC that is inclusive and engaging for all students: women, non-veterans, LGBTQ, and people of various racial/ethnic compositions and abilities.

Women's Resource Center

Women's Resource Center
Montgomery Hall Courtyard
503-725-5672
wrc@pdx.edu
www.pdx.edu/wrc

The Portland State University Women's Resource Center advocates for the best educational and campus experience for all members of our community. We accomplish this by advancing social justice, ensuring access to personal empowerment for all women, and by working toward a safe and healthy campus. The Women's Resource Center is open to students of all genders.

STUDENT POLICIES AND GUIDELINES

Safe Campus Module

Safe Campus Module
www.pdx.edu/sexual-assault

Portland State University desires to create a safe campus for our students. As part of that mission, PSU requires all students to take the learning module entitled Creating a Safe Campus: Preventing Gender Discrimination, Sexual Harassment, Sexual Misconduct and Sexual Assault.

Find the module in D2L. The module and accompanying exam will take approximately 30 minutes to complete. At the conclusion of the module, students should be aware of internal and external resources, reporting options, and PSU's policies and codes regarding gender discrimination, sexual harassment, sexual misconduct, sexual assault, dating violence and domestic violence.

Creating a Culture of Respect Module

All PSU employees, including student employees, must complete the training module "Creating a Culture of Respect: Preventing Prohibited Discrimination and Unlawful Harassment." PSU strives to maintain a climate that values diversity and exemplifies mutual respect. To that end, you are required to complete this module in the first two weeks of employment. Please follow these instructions for completing the diversity training. Your supervisor can assist you with any questions.

This training offers strategies for preventing unlawful discrimination, harassment, and retaliation within the University. It teaches our community how to respond appropriately when they become aware of potential discrimination or harassment, educates us about the risk of liability to Portland State University, its managers, and individual employees, and, in keeping with PSU's core values; promotes a climate of mutual respect.

Reasonable Accommodation/Access Policy

PSU students with disabilities are provided with reasonable accommodations that give them the opportunity for equal access to educational programs, activities, and university life. Prospective students are provided with reasonable accommodations to assist them in the application process.

The Disability Resource Center (DRC) works to ensure equal access to University courses, programs, facilities, services, and activities by providing students with

documented disabilities reasonable accommodations, academic adjustments, auxiliary aids and services, training, consultation, and technical assistance.

Student Conduct

The Student Conduct and Community Standards Program promotes a culture of integrity and respect through the administration of policies such as the Student Code of Conduct, which articulates standards of appropriate behavior of students. This program administers policies and regulations that help the University to operate in a climate of free inquiry and expression, and assists it in protecting its academic environment and educational purpose. Students would seek assistance from the Conduct and Community Standards Program when they are seeking policy information, charged with a violation, or are report various concerns about potential student misconduct.

Academic Integrity

The policy governing academic integrity is part of the Code of Student Conduct and Responsibility. Academic integrity is a cornerstone of any meaningful education and a reflection of each student's maturity and integrity. The Code of Student Conduct and Responsibility, which applies to all students, prohibits all forms of academic misconduct, fraud, and dishonesty. These acts include, but are not limited to: plagiarism, buying and selling of course assignments and research papers, performing academic assignments (including tests and examinations) for other persons, unauthorized collaboration, disclosure and receipt of academic information, and other practices commonly understood to be academic misconduct.

Student Health Insurance

Domestic students enrolled in five (5) or more in-load credit hours per term, or international students enrolled in one (1) credit hour, are required to carry major medical health insurance while attending PSU. Students are assessed a quarterly health insurance fee that enrolls them in the PSU Student Health Insurance Plan. A student may waive out of the PSU-sponsored health insurance plan if they maintain personal health insurance that meets University criteria. For more information about the PSU student health insurance waiver process, waiver deadlines, or to review the benefits and rules of the PSU Student Health Insurance Plan, visit www.pdx.edu/shac/psu-student-health-insurance-information.

INTERDISCIPLINARY STUDIES

SUSTAINABILITY GRADUATE CERTIFICATE

The Graduate Certificate in Sustainability offers an integrated series of post-baccalaureate courses that allow students to deeply explore and understand the three spheres of sustainability: social, economic, and environmental. The courses cover theory as well as practice, providing experience analyzing real-world approaches and solutions. Courses can be taken by students admitted solely to the certificate program or concurrently enrolled in masters and doctoral programs at PSU. The certificate is administered by the Institute for Sustainable Solutions. More information about the certificate and application procedures can be found at www.pdx.edu/sustainability/graduate-certificate-in-sustainability.

OFFICE OF INTERNATIONAL AFFAIRS

Ron L. Witczak, Executive Director
Karl Miller Center, 610D

503-725-4094
www.pdx.edu/international-affairs

The Office of International Affairs (OIA) provides support for international students, scholars and faculty, as well as PSU students and faculty who are planning to study, intern and teach abroad. OIA also houses Centers and Institutes which focus on specific geographic regions with the goal of promoting cultural understanding and engagement. In addition, OIA hosts Special Programs for international students visiting the U.S.

International Student and Scholar Services

Director: Christina Luther
Associate Director: Jill Townley
Assistant Director: Joshua Davis
Karl Miller Center, Suite 660
503-725-4094

International Student and Scholar Services staff work with admitted international students, visiting scholars, and international faculty. The office is a central source of information on the services and programs available to these groups. The office works closely with sponsoring agencies, diplomatic missions, and other government agencies to resolve academic, financial, immigration and adjustment issues.

Services and programs offered to international students, scholars and faculty include:

- Intensive orientation programs for all incoming international students and faculty.
- Immigration advising for students, visiting scholars, exchange students and scholars.
- Administration of three scholarships specifically for international students.
- A variety of educational and social events for international students and scholars with University and community groups, including a mentoring program which matches new international students with returning students.
- Weekly or quarterly workshops on issues affecting internationals, such as insurance, work permission, taxes, etc.
- A weekly International Coffee Hour open to all PSU students, staff, and faculty.

- Advising for faculty and staff regarding the invitation and employment of international faculty.
- Advising of international faculty (and their dependents) on regulations and procedures for maintaining legal status, travel, employment authorization, and other issues.

For more information about staff and services, please visit our websites:

www.pdx.edu/international-students and
www.pdx.edu/international-scholars.

For information about international student admissions, contact the Office of Admissions at 503-725-3511 or intladm@pdx.edu.

For information about English as a Second Language (ESL), contact the Intensive English Language Program, University Center Building Suite 400, 503-725-4088 or esl@pdx.edu.

Education Abroad

Director: Jen Hamlow
Karl Miller Center, 6th Floor
503-725-5309

www.pdx.edu/ed-abroad

PSU supports the long-standing value that studying other cultures and places is an essential component of modern education. As a result of our commitment to internationalization, the Office of International Affairs sponsors a wide variety of education abroad programs for PSU students year-round. The University administers some of these programs directly, while others are conducted in cooperation with educational associations such as IE3 Global, the Council on International Educational Exchange (CIEE), and the University Studies Abroad Consortium (USAC).

Advisors in Education Abroad provide guidance and assistance for students who seek to enrich their university education through education abroad. PSU offers over 200 programs in more than 80 countries. Because these programs offer residence credit and home campus registration, participating students who are eligible for financial aid at PSU may apply it, in most cases, to these study programs.

PSU has a long-standing tradition of working with faculty to develop a variety of short-term overseas experiences for students. The length of these programs ranges from ten days to six weeks, and they are offered throughout the academic year. PSU faculty members have taken students

to countries all over the world, including China, Costa Rica, Cuba, Ecuador, Ghana, India, Italy, Japan, Mexico, Nicaragua, Spain, and Vietnam.

We are currently working on a Curriculum Integration initiative to add education abroad within each academic major. The goal is to help all students see how they can earn credit in their major for studying abroad as an important part of their PSU educational experience.

Education Abroad opportunities are subject to change throughout the year. For the most current listing of programs available, please visit our website at www.pdx.edu/ed-abroad, or come to our offices on the 6th floor of the Karl Miller Center.

International Special Programs

Director: Jeff Baffaro
Karl Miller Center, 630A

503-725-4181
www.pdx.edu/intl-special-programs

International Special Programs (ISP) provides non-credit short-term training and education programs for professional and student groups, custom-designed for specific international organizations/agencies/institutions, which draw on resources and expertise of PSU faculty and the Portland community to provide specialized instruction.

ISP provides administrative, logistical, and curricular support services to provide for a custom-designed group package experience which includes instruction, extra-/co-curricular activities, transportation, housing and meals. ISP hosts 30-35 groups a year. For more information visit our website at www.pdx.edu/intl-special-programs.

International Partnerships

Director: Joyce Hamilla
Karl Miller Center, 630D
503-725-4878

Associate Director: Sally S. Mudiamu
Karl Miller Center, 630E
503-725-5728

go.pdx.edu/international-partnerships

The Office of International Partnerships (OIP) is the focal point for all Portland State University international partnerships. PSU is committed to developing robust, multi-faceted partnerships that include transfer & pathway programs, study abroad at PSU, short-term special programs, education abroad for PSU students, alumni involvement, private sector engagements, and scholarly exchange. Linking these opportunities together under the umbrella of a single comprehensive partnership facilitates a rich international experience for PSU students and faculty. OIP manages 293 partnerships in 54 countries and

serves as a bridge to connect PSU faculty and staff to international opportunities. OIP also provides robust cultural and institutional expertise to PSU faculty, staff, and international partners seeking to navigate the complex international university landscape.

Portland Center

Director: Sally S. Mudiamu
Karl Miller Center, 630E
503-725-5728
strand@pdx.edu

www.pdx.edu/transnational-programs

Office of International Affairs is launching the Portland Center starting Fall Term 2018, which will run programming and support for visiting, non-degree seeking international students at PSU. The Portland Center will collaborate closely with the Intensive English Language Institute to offer language and academic support to students from partner institutions wishing to take regular PSU undergraduate classes as part of their home baccalaureate degree. The program will accept students four times per year on a rolling admissions basis and assist students with housing, registration and student support. The Waseda Transnational Program, which has been running for nearly two decades at PSU, will be folded into the Portland Center from September 2018. Sally Mudiamu will serve as Director, and the Portland Center will be housed in the Office of International Partnerships. Office of International Affairs is excited about offering this opportunity to institutional partners and their students. It will offer PSU an opportunity to more intentionally meet the needs of short-term visiting international students while simultaneously offering an opportunity to advance the internationalization of the PSU undergraduate curriculum by working collaboratively across units and schools to offer programming that showcases Portland.

Confucius Institute at PSU

Director: Jian Wang
Karl Miller Center, 660T
503-725-4574

Associate Director: Jian Zhang
Karl Miller Center, 660T
503-725-8561

www.pdx.edu/confucius-institute

The Confucius Institute at PSU (CIPSU) is a joint educational project of Portland State University and the Confucius Institute Headquarters (Hanban) of the People's Republic of China (PRC). CIPSU seeks to promote a deeper understanding of Chinese language and culture in the greater Portland area and fosters mutually beneficial educational exchanges between the United States and China. CIPSU's offerings include non-degree Chinese

language and cultural courses for pre-K and K-12 school students, college and graduate students, as well as the general public and business, corporate and government employees. In addition, CIPSU offers Chinese language teacher professional development and training; Chinese proficiency HSK/YCT/BCT tests; academic programs and lecture series related to Chinese culture and contemporary China and scholarships for PSU and Oregon students. The Institute also organizes and hosts local, regional, national and international conferences, forums, symposiums and seminars.

CIPSU hosts visiting faculty from the PRC and has a Board of Directors drawn from the greater Portland area. The Board consists of professors from Portland State University and other educational institutions, as well as representatives from Portland-area businesses and individuals with a strong interest in China. Dr. Eric Einspruch, Adjunct Professor at Portland State University, serves as the Board Chair.

CIPSU is an independently funded entity that reports to PSU's Office of International Affairs.

Institute for Asian Studies

Director: Suwako Watanabe
Karl Miller Center, 6th Floor
503-725-5284

www.pdx.edu/asian-studies

The mission of the Institute is to contribute to the internationalization objectives of PSU by: promoting research, training, teaching, curricular development, and public awareness on all parts of Asia; collaborating with other units of the University, and with other educational organizations in Oregon, to promote better understanding of Asia, past and present; sponsoring conferences, speakers training programs, and other Asia-focused activities; and working with PSU administration and faculty to develop strategies for increasing the coherence and effectiveness of the University's Asia programs and its profile in Asia.

Middle East Studies Center

Director: Lindsay Benstead, PhD
Outreach Coordinator: David M. Duke, II
Karl Miller Center, 660R
503-725-5467

www.pdx.edu/middle-east-studies

The mission of the Middle East Studies Center (MESC) is to serve our students, city, and world through the creation of a diverse, inclusive community and the promotion and

sharing of scholarship on the Middle East, North Africa, and Southwest Asia. The Center started in 1959 as the first federally supported undergraduate program for Arabic language and Middle East area studies in the nation. Over the years, MESC expanded to include the major languages and other disciplines of the region. Today, Portland State's Middle East studies curriculum includes foreign language courses in Arabic, Hebrew, Persian, and Turkish, as well as area studies courses in a number of disciplines. The Middle East studies program boasts a distinguished faculty and vast library resources. The Center serves as a resource on issues pertaining to the Middle East through activities that reach students and scholars, as well as businesses, educators, and the media. In addition, the Center supports academic conferences, workshops, cultural events, lectures, and a resource library.

The Center's core responsibilities are academic and outreach: to help sponsor conferences, speakers, training programs, and other relevant events and activities related to Middle East studies broadly defined. The Center further seeks to guide and train students who plan to make a career in this field. To support these initiatives, MESC closely works with academic and administrative units across campus. As an outgrowth of these core responsibilities, it also conducts outreach activities with local, national, and international educational and community organizations.

Please take a look at the various activities of our center on our web page and consider becoming a friend of MESC.

Fulbright Program

Director: Debra Z. Clemans
clemansd@pdx.edu
Assistant: Karin Waller
wallerk@pdx.edu

Karl Miller Center, Suite 610
<https://www.pdx.edu/fellowships/>

Portland State participates in the International Educational Exchange Program authorized by the Fulbright-Hays Act. Awards available include those offered by the U.S. government, foreign governments, universities, and private donors. Grants are available to qualified undergraduate and graduate students and alumni for English teaching or advanced research, to qualified faculty for lecturing and research, and to teachers for overseas teacher programs.

Grants for Study, Research, or Teaching Abroad

Fulbright opportunities are announced annually on April 1 with submission deadlines in late Summer/early Fall. The annual deadline is September 8 for awards beginning the following academic year. Information sessions are held in Spring term. The director manages PSU's campus interview process and assists applicants throughout the application cycle.

UK Summer Institutes for Undergraduates

Fulbright Summer Programs to the UK are available to undergraduate students with at least two years of study left to complete. Contact Debra Clemans to learn more. Deadlines occur in winter term.

University Lecturing and/or Advanced Research

The Office of International Affairs provides information to faculty on grants for university lecturing or advanced research. The application deadline for many faculty and professional level programs is August 1 each year. Or contact Debra Clemans to learn about how to invite a scholar from overseas to study, teach, or do research in your department at Portland State University.

Doctoral Dissertation Research Abroad

This Fulbright-Hays program provides grants to colleges and universities to fund individual doctoral students who conduct research in other countries, in modern foreign languages and area studies for periods of six to twelve months. Deadlines vary. Visit <http://www2.ed.gov/programs/iegpsddrap/index.html> and contact Debra Clemans at clemansd@pdx.edu if you decide to apply.

Boren Programs

David L. Boren Scholarships (NSEP)

Director: Debra Z. Clemans
clemansd@pdx.edu

Assistant: Karin Waller
wallerk@pdx.edu

Karl Miller Center, Suite 610
<https://www.pdx.edu/fellowships/>

Scholarships to undergraduate and graduate students are available through this federally funded program for the purpose of helping more Americans learn the languages and cultures of countries and regions deemed critical to U.S. national security. It aims to build a base of future leaders and professionals who can help the United States make sound decisions, deal effectively with global issues, and to enhance and increase the faculty who can educate U.S. citizens toward achievement of these goals. This scholarship includes a service requirement once a student has completed his or her degree. Applications are due early in winter term each year. Interviews are held on the PSU campus prior to Boren deadlines. Those interested should contact the Boren director listed above for more information on requirements and application details. Information sessions are available during fall term.

UNIVERSITY HONORS COLLEGE

University Honors College

1632 SW 12th Ave.

503-725-4928

www.pdx.edu/honors

honors@pdx.edu

Honors in the City

University Honors College combines the benefits and rigor of a small liberal arts college with the opportunities and resources of a large urban research university. The College centrally engages Portland State's mission to "Let Knowledge Serve the City," drawing on PSU's institutional commitment to community engagement, sustainability, and internationalization as well as its civic leadership and location in downtown Portland. The Honors College serves high-achieving, academically motivated students by providing an engaged and challenging educational experience that uses the city of Portland as a living/learning laboratory. Students in any department or major can join the University Honors College; all Honors students graduate with prestigious University Honors in their chosen field.

Honors at PSU offers courses in the theory and research methods of the human, natural, and social sciences as well as a wide-ranging selection of intensive interdisciplinary seminars. Students have the opportunity to work closely with faculty on research projects, network and gain experience through internships, and study abroad with Honors faculty. In their final year, Honors students research and write a baccalaureate Honors thesis.

Engaging faculty from across PSU's campus, the University Honors College gives students the opportunity to work with our finest teachers and researchers. Honors students become disciplined, nimble thinkers, prepared to become leaders, and ready to apply their academic learning to the challenges and uncertainties of the real world.

Degree Maps

To view the degree map for Urban Honors undergraduate students, go to www.pdx.edu/academic-programs/undergraduate-programs.

Eligibility and admission

Interested students must complete the additional Urban Honors application questions available as part of the PSU undergraduate application. Current PSU students wishing to transfer into the Honors College should see the Honors website for instructions on completing an application: www.pdx.edu/honors. Students are welcome to transfer into the University Honors College from outside institutions or from within PSU at any point in their

freshman, sophomore, or junior years. Students wishing to transfer into Honors as seniors should contact the University Honors Director to discuss their research experience and thesis plans.

In order to be admitted to the Urban Honors College, all students must first be admitted to Portland State University.

Minimum criteria for admission:

First-year students (entering from high school):

- 3.50 cumulative unweighted high school GPA
OR
- 1200 on the SAT
OR
- 27 on the ACT

Transfer/Current PSU students:

- Cumulative GPA of 3.25 or higher in college-level courses

Graduation Requirements

All Honors students must complete the Honors College curriculum and a senior thesis supervised by a faculty advisor. Honors theses are presented at a public symposium and are published on PDX.Scholar, PSU's open source thesis and dissertation database.

Honors students must meet the undergraduate degree requirements set by the University, including those governing total credits earned, upper division credits, the writing requirement, residence credit, and degree (BA/BS) requirements, as well as any additional degree requirements set by their major department.

Graduating from Honors requires a cumulative PSU GPA of 3.25 or higher and a cumulative 3.25 GPA in all Honors (HON) courses.

First Year: The Global City (15 credits)

- Hon 101, Hon 102, Hon 103
- The sequence fulfills 8 credits of Arts and Letters, 4 credits in Social Science, and the University's lower-division writing requirement.
- First year students must complete the Global City sequence regardless of the number of AP/IB credits they may have completed.
- Incoming first year transfer students with 29 or fewer college credits must complete the Global City

sequence. **Second Year: Urban Discourses (12 credits)**

- Hon 201, Hon 202, Hon 203
- These three courses fulfill 4 credits in Arts and Letters, 4 credits in Social Science, and 4 credits in sciences respectively. The sequence completes the lower-division writing requirement.
- Students entering Honors with 30-79 college credits should begin with the second year curriculum; all three courses are required. It is recommended that transfer students begin with HON 202. **Junior Year: Theory & Practice (12 credits)**
- Students are required to take at least one 4-credit Honors Junior Seminar: Hon 407
- The additional 8 credits of Junior requirements may be fulfilled through any combination of Honors seminars (Hon 407), internships (Hon 404), research (Hon 401), departmental honors seminars, or approved study abroad courses.
- Students entering Honors with 80+ credits are required to take HON 202 or its equivalent during their first term in Honors. 12 credits of junior level coursework are also required. **Senior Year: Honors Thesis (8 credits)**
- Hon 403: Thesis Prospectus (4 credits); Hon 403: Thesis Continuation (4 credits); public presentation and defense
- Students wishing to transfer into Honors as seniors should contact the Honors College Director to discuss their research experience and plans.

Honors Curriculum

First year: Foundations

The Global City: Hon 101, Hon 102, Hon 103 (15 credits)

This year-long sequence serves as a foundations course and provides the basic intellectual framework for the social, cultural, political, and material study of the urban environment. "The Global City" introduces the means to think critically about the urban environment and the interdependence between the city and the global world.

Over the course of three terms, this course focuses on developing and refining student understanding and practice of the three writing tools dealt with throughout the Honors curriculum: summary of argument, explication, and placement in relation to a discourse community, as part of the preparation for writing the undergraduate thesis.

While each section of the course will have different material, the writing tools studied throughout the year are the same from section to section. "The Global City" sequence is taken in a cohort model, with students remaining with the same peers and faculty throughout the academic year. Class size is limited to 24.

Second year: Research Methods

Urban Discourses: Hon 201, Hon 202, Hon 203 (12 credits)

The three connected courses of the sophomore year take the urban as an appropriately dynamic subject for research shaped by the three "domains" of academic knowledge: the social sciences, the humanities, and the natural sciences. Students progress through an integrated set of research projects that develop not only their understanding of the systems by which cities operate but also their own critical capacities as urban residents and knowledge producers. Class size limited to 30.

Hon 201: Urban Social Sciences

This course examines urban structures and processes through a combination of social science methodologies including, but not limited to, spatial analysis, qualitative and quantitative methods and archival research. Field drawn upon may include sociology, anthropology, geography, and other social sciences. Students will explore and practice these skills by conducting original research in the Portland area.

Hon 202: Urban Humanities

This course examines the city as text, using humanities methodologies that produce close analysis of cultural artifacts and texts placed in cultural and historic contexts. Disciplinary approaches may include History, Languages and Literatures, Art History, Film Studies, Gender Studies, Cultural Studies, and others.

Hon 203: Urban Ecology

Utilizing Portland as a living laboratory, this course introduces methodologies in the natural sciences. We explore foundations of experimental design while also sharpening observational skills and awareness of physical and ecological patterns and processes in the city. Different focus areas depend upon seasonal activity and include a range of topics such as stream ecology, plant science, and ornithology.

Third year: "Let Knowledge Serve the City" (12 credits)

Honors Junior Seminars: Hon 407 (minimum 4 credits - maximum 12 credits)

At least one 4-credit Hon 407 Junior Seminar is required; additional seminars are encouraged. Students choose from among a wide variety of interdisciplinary seminars, taught by Honors and departmental faculty, broadly focused around key methodological and interdisciplinary questions. Seminar classes challenge Honors students to think

creatively and analytically as well as rehearse the essential research and writing skills necessary for the production of a senior thesis. Class size limited to 20.

Honors Abroad: Hon 407 (4 credits - 8 credits)

The Honors College offers faculty-led global Hon 407 seminars for Honors students every year. Past trips have investigated cultural and ecological sustainability in Borneo, studied sustainable development in the highlands of Nicaragua, explored global cities in Vietnam, and examined the history of plague and pestilence in London. These courses fulfill the Hon 407 Junior Seminar requirement.

Internships: Hon 404 (4 credits - 8 credits)

Students have the opportunity to gain experience, apply their academic learning, and make connections through approved cooperative education/internships. During their internship, students must enroll in and complete the online Hon 404: Internship module on D2L. Honors students have in the past interned at OHSU, the U.S. Attorney's office, Portlandia, the National Institutes for Health, the Portland Art Museum, Mercy Corps, the Beaverton City Library, Willamette Week, and the Smithsonian, among many other organizations.

Research: Hon 401 (4 credits - 8 credits)

Students are encouraged to join ongoing research projects, conduct independent research, and develop creative projects under the supervision and mentorship of faculty.

Departmental H-Seminars (4 credits - 8 credits)

Students may fulfill up to 8 credits of the junior requirement by completing approved H-seminars offered by departments across campus. A list of approved H-seminars is published on the Honors website each term.

Fourth year: Undergraduate Thesis (8 credits)

Hon 403 Thesis: Prospectus (4 credits)

Hon 403 Thesis: Continuation (4 credits)

Honors students are required to complete a thesis in their major field during their final undergraduate year. Students first take the 4-credit Hon 403 Thesis: Prospectus seminar, in which they identify their advisor and write their thesis prospectus. Upon successful completion of the Prospectus course, the student enrolls in one or more Hon 403 Thesis: Continuation sections, in which they complete their thesis. Finally, the student presents the thesis at the Honors Thesis Symposium. Honors theses are published online through the PSU Library database PDX.Scholar, and are also available in the Undergraduate Research Commons, showcasing undergraduate research from universities nationwide.

UNIVERSITY LIBRARY

Tom Bielavitz, Interim Dean
503-725-5874
library.pdx.edu

The University Library supports students with online and print resources, a variety of study spaces and technology, and research help and instruction. The electronic collections, available at the Library's website, include thousands of academic resources like journals, books, streaming media, and databases, available online on- and off-campus. The Branford Price Millar Library, located on the west side of the South Park Blocks across from Neuberger Hall, houses a large collection of books, journals, DVDs, and more. Students will find comfortable study spaces, tables for group work, computer labs, and quiet floors. The Library also loans technology like laptops, iPads, and calculators. Special Collections and University Archives feature unique materials of regional and scholarly interest. PDXScholar, the university's digital repository, includes PSU theses, dissertations, open access textbooks, and student and faculty scholarly contributions.

Librarians teach classes and workshops on library information and resources. Faculty can use the website to request an instruction session for their class.

The Library encourages students to ask for help with research. Visit the Library Research Center on the Library's second floor, call 503-725-2399, or contact us by chat, text, or email. Subject librarians are available to consult with faculty and students on in-depth research questions, theses, and dissertations.

To check out materials, visit the Circulation desk on the first floor. A valid PSU ID is required. More information about borrowing materials, loan periods, fines, and renewals is available online.

Course reserves materials may be checked out at the Circulation desk on the first floor. Online course reserves are available via the Library's website.

The Library provides collaborative study spaces and technology-enabled environments designed to enhance students' learning experiences. Group study rooms, three practice presentation rooms, and a family friendly study room are available. They can be reserved in advance online. Keys may be picked up at the Circulation desk. The Library also provides designated quiet study floors for individual study.

Food and drinks are allowed. Branford's Bean, an onsite coffee cart on the first floor, is open during most Library hours.

The Library's hours vary throughout the year. Visit the Library's website or call 503-725-5874 for current hours.

UNIVERSITY STUDIES

117 Cramer Hall
503-725-5890
www.pdx.edu/unst
askunst@pdx.edu

Please see University Studies (general education) baccalaureate requirements (p. 33).

The faculty of PSU have designed a four-year program of study required of all students (not required for Liberal Studies or Honors Program) planning to graduate from PSU. This nationally recognized program offers students a clear opportunity to acquire the foundation for the academic and problem solving skills needed to succeed in the 21st century. University Studies offers students a program of connected educational opportunities.

The purpose of the University Studies program is to facilitate the acquisition of the knowledge, abilities, and attitudes that will form a foundation for lifelong learning among its students. This foundation is built on four learning goals which include building capacity and the propensity to engage in critical thinking, using various forms of communication for learning and expression, exploring and analyzing the broader human experience and its environment, and appreciating the responsibilities of persons to themselves, each other, and their communities.

University Studies begins with Freshman Inquiry, a year-long course introducing students to different modes of inquiry and providing them with the tools to succeed in advanced studies and their majors. At the sophomore level, students choose three different courses, each of which leads into a thematically linked, interdisciplinary cluster of courses at the upper-division level. Students are required to complete 12 credits from one of these clusters. Finally, all students are required to complete a capstone course which consists of teams of students from different majors working together to complete a project addressing an issue in the Portland metropolitan community.

University Studies courses transfer to other institutions. For more information or assistance visit the University Studies website <https://www.pdx.edu/unst/transferring-university-studies-credits> or the Office in 117 Cramer Hall.

Freshman Inquiry

See the University Studies Program website (www.pdx.edu/unst) for course descriptions

Freshman Inquiry consists of a year-long course developed by a team of faculty from different disciplines. Freshman Inquiry has a maximum class size of 36 students. Each class is also divided into three small-group, peer mentor sessions led by specially selected upper-division students.

Class material is introduced and explored during the full class sessions and then assignments are developed and discussed in the peer mentor sessions.

While the themes and content of the Freshman Inquiry courses differ, the overall objectives are the same. Each of these classes builds a foundation of communication skills for learning and expression. Writing is the core, but communication also includes emphasis on improving oral, quantitative reasoning, and graphic/visual modes of communication. Freshman Inquiry is also designed to help students learn and effectively use current information technologies. Students will also learn how disciplines from the sciences, social sciences, humanities, and professional schools approach problems in different ways and how they work together to improve understanding of complex issues.

When students complete Freshman Inquiry they will be expected to be able to apply writing, quantitative reasoning, speech, and visual/graphic skills to problems requiring analysis and discovery. Freshman Inquiry will expand awareness of academic potential and prepare students to move on to increasingly rigorous and sophisticated levels of inquiry.

Sophomore Inquiry

See the University Studies Program website (www.pdx.edu/unst) or online schedule of courses for course descriptions.

At the sophomore level, students complete 12 credits of coursework in Sophomore Inquiry. Students select three Sophomore Inquiry classes. Sophomore Inquiry classes are structured similarly to those in Freshman Inquiry with a main class and smaller mentor inquiry workshops, except at this level the mentor classes are led by graduate students. Mentor inquiry workshops focus on weekly learning modules on study skills, writing, technology training, group dynamics, ePortfolio presentation and speech and oral communication.

Sophomore Inquiry classes maintain an interdisciplinary approach to their individual topics, and continue to emphasize the four University Studies goals of inquiry and critical thinking, communication, the diversity of human experience, and ethics and social responsibility. Each Sophomore Inquiry class also provides an introduction to important concepts, questions, and concerns that will be explored in greater depth in the upper-division cluster courses to which it is linked.

Upper-Division Cluster

See the University Studies Program website (www.pdx.edu/unst) for descriptions of upper-division clusters and lists of approved cluster courses.

After their Sophomore Inquiry coursework, students select one of three clusters represented in their Sophomore Inquiry classes. From a list of courses approved for the selected cluster, students pursue a program of 12 upper-division credits offered by various departments across campus. These classes allow students to explore an aspect of the cluster's theme in greater depth, while continuing to investigate the four University Studies goals in relation to the cluster topic.

Students might choose a cluster to broaden their perspective, allowing them the opportunity to take classes of interest outside their major, or students can choose a cluster to complement their major area of study. In either event, Upper-Division Cluster courses may not be used to fulfill a student's major requirement. In addition, students cannot take cluster courses in their major or courses cross listed with their majors.

Senior Capstone

See the University Studies Program website (www.capstone.unst.pdx.edu) for course descriptions.

The culmination of the University Studies program is the Capstone course requirement. This 6-credit, community-based learning course is designed to provide students with the opportunity to apply, in a team context, what they have learned in the major and in their other university studies courses to a real challenge emanating from the community. Interdisciplinary teams of students address these challenges and produce a summation product in a University Studies approved Capstone course under the instruction of a PSU faculty member.

The Capstone's purpose is to further enhance student learning while cultivating critical life abilities that are important both academically and professionally: establishing connections within the larger community, developing strategies for analyzing and addressing problems, and working with others trained in fields different from one's own.

Independent volunteering, work experience, by arrangement credits, internships and practica **cannot** fulfill the Capstone requirement. Students must have completed 90 credit hours before registering for their Capstone course. *Students should read and follow the Capstone attendance policy.*

COLLEGE OF THE ARTS

Leroy E. Bynum, Jr., Dean
 Sue Taylor, Associate Dean
 Lincoln Hall 349
 503-725-3105
www.pdx.edu/the-arts

- B.A., B.S.—Architecture, Art History, Film, Music Performance, Music Theory, Musicology/Ethnomusicology, Sonic Arts and Music Production, Theater Arts
- B.F.A.—Art Practice, Graphic Design
- B.M.—Composition, Jazz Studies, Music Education, Performance, Performance with an Emphasis in Voice
- Certificate in Art History
- Certificate in Dance
- Minor in Architecture; Art History; Dance; Design Management*; Film Studies; Graphic Design; Music; Music History; Photography*; Theater Arts (* indicates minors not available to Art Practice majors or Graphic Design majors)
- Graduate Certificate in Public Interest Design
- Graduate Certificate in Urban Design
- M.A., M.S.—Music, Theater Arts
- M.M.—Conducting, Jazz Studies, Performance
- M.Arch.—Architecture (2-year and 3-year tracks)
- M.F.A.—Contemporary Art Practice

The College of the Arts prepares talented students for creative careers and lifelong enrichment through intellectual discovery and myriad cultural experiences. Students are challenged to see their work within the artistic and critical traditions that provoke their own creative thinking and to seek interdisciplinary approaches and collaboration in both local and global contexts. Located on the Park Blocks in downtown Portland, the College joins the Portland Art Museum and Portland Center for the Performing Arts in the heart of the city's cultural district. Within blocks of the College, theaters, galleries, professional studios, and design and architectural firms provide a stimulating environment in which our students develop through interactions and internships. The combination of a celebrated faculty and a professional arts community creates exciting undergraduate and graduate programs with rigorous standards in all four Schools within the College—Architecture, Art + Design, Film, and Music & Theater.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for the College of the Arts' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Policy on admission to undergraduate programs

Students may declare the major at any time after enrolling at Portland State University, with the exception of Music, which requires admission immediately. Subsequently, students must be admitted formally to all degree programs in architecture, film, graphic design, theater arts, and the BFA in Art Practice before they will (1) be allowed to enroll in restricted upper-division courses offered by the program and (2) be graduated from that program. Students apply for formal School admission one to two terms before completing all eligibility requirements. Specific application deadlines, criteria for admission and applications are available on respective School websites.

Students transferring from other institutions who want to be admitted formally to a specific degree program must:

- Meet all eligibility requirements.
- Apply for admission to PSU.
- Have one copy of their transcripts sent to the Office of Admissions.
- Apply for program admission to the School of choice (including, if requested, one copy of their transcripts sent to the School of their choice).

Please see individual School websites for more specific admissions information.

DIFFERENTIAL TUITION

Graduate students and upper-division majors in the College of the Arts pay differential tuition—that is, slightly higher rates for more expensive programs—as also shown in the tuition charts online and elsewhere in this Bulletin:

Undergraduate residents \$11.40 per credit hour

Undergraduate non-residents \$46.00 per credit hour

Graduate residents \$47.00 per credit hour

Graduate non-residents \$51.00 per credit hour

Graduate students will be charged differential rates upon matriculation.

Lower-division undergraduates (freshmen and sophomores) will not be charged differential rates until they have completed 90 credit hours or passed review to upper-division status. Undergraduate transfer students with 90 or more credit hours will be charged differential rates immediately upon matriculation.

Double majors will be charged COTA differential tuition unless the second major is in another College or program also charging differential tuition (Business, Engineering), in which case students will be charged one or the other of their programs' differential rates.

Honors students will be charged both COTA differential tuition and Honors differential tuition.

Upper-division undergraduates changing majors to a COTA program from another School or College will be charged differential tuition.

Upper-division undergraduates changing majors from a COTA program to another College or School must ask their COTA School administrative staff to remove College Code 26 from their record so that COTA's differential tuition will no longer be charged.

For those who fail to alert their COTA School immediately that they are leaving their major, refunds of differential tuition will only be issued for one term prior to the term in which students do notify the COTA School.

Students changing majors from a COTA School will no longer have access to certain restricted courses.

School of Architecture

235 Shattuck Hall
503-725-8405
www.pdx.edu/architecture/

- B.A., B.S.—Architecture
- Minor—Architecture
- M. Arch: 2-year track and 3-year track
- Graduate Certificate in Public Interest Design
- Graduate Certificate in Urban Design

The architecture program engages students in the fascinating creative questions that pertain to the making of architecture. The program develops the creative identity of each student while nurturing civic responsibility, critical judgment and the representational and technical ability to translate ideas into plausible architectural works. This lies at the core of an educational experience that provides a rich initiation into the world of architectural practice and preparation for a career as a licensed professional. The heart of the program resides in the architecture design

studio and is nourished by the accompanying lecture and seminar courses that bring focused study in the humanities, technology, and the profession. Alongside a progressive attitude to design process and theoretical speculation, the program participates in the advancement of knowledge in contemporary issues and technologies of sustainable urban living and environmental stewardship.

In giving place to human situations architecture bears the responsibility of being the most public of the arts and it cannot be practiced meaningfully without a conversation with the community at large. Our design studio classes, in particular, are sustained by an engagement beyond the university to the life-world we share with our urban cohabitants, including direct interaction with the architectural practice community through our adjunct professors, critics, guest speakers and advisers. This fosters the generation of imaginative responses to the challenge of 'what ought to be' in the context of 'what is'.

The educational emphasis of the program encourages students to recognize the value of creative engagement with the prevailing realities of the city as a primary means of cultural transformation, and to perceive Portland as an 'urban laboratory' for experimental investigations of contemporary human issues. This takes place through interaction and dialogue with the communities at large and by continual acts of interpretive making with diverse media at multiple scales, including full-size fabrication.

Undergraduate programs

Portland State University encourages the study of architecture at the undergraduate level in the context of a broad and enriching liberal arts education. It is important to understand the place of a specialist or professional knowledge of architecture in relation to its wider cultural setting. Students studying for the undergraduate degree would include those seeking a professional education leading to graduate study and eventually licensure, those seeking careers in design and related fields, and those interested in a liberal arts education focused on architecture.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Architecture's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission as an undergraduate is based on general University admission requirements.

ARCHITECTURE B.A./B.S.

DEGREE REQUIREMENTS

The B.A./B.S. major in Architecture requires the completion of a minimum of 94 credits in addition to the general University requirements for a degree. The required courses are as follows:

Courses

Arch 100	Introduction to Architecture	4
Arch 101	Introduction to Environmental Design	4
Arch 120	Visual Communication 1	4
Arch 121	Visual Communication 2	4
Arch 230	Architecture and Cultural History I	4
Arch 231	Architecture and Cultural History II	4
Arch 232	Architecture and Cultural History III	4
Arch 280	Design Fundamentals Studio 1	6
Arch 281	Design Fundamentals Studio 2	6
Arch 360	Building Tectonics 1	4
Arch 361	Building Tectonics 2	4
Arch 362	Building Tectonics 3	4
Arch 380	Architectural Design Studio 1	6
	Arch 381 and/or 382 Arch Design Studio 2 and/or 3 and/or Arch 384, 385 and/or Arch Design Focus Studio 1 and 2	12
Arch 46x	Building Tectonics Elective	4
Arch 480	Architectural Design Studio 4	6
Arch 481	Architectural Design Studio 5	6
Arch	Architectural Upper-Division	8
3xx/4xx	Elective	
Subtotal: 94		

Admission to the professional track and junior level Architecture Design Studios (380 sequence) is based on a competitive review of a student's academic record, a statement of intent, and a portfolio of creative work. All students must obtain an adviser for academic planning of their program of study. At least one of the Architectural upper-division electives must be taken in the 'Humanities' subject area (43x numbered classes). Architecture courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling major requirements.

Students must obtain at least a B- grade in all 100- and 200-level required architecture classes for them to count towards the major. All other classes used to satisfy the major must be graded C- or higher. Students receiving a grade below these minimums in any architectural studio class, or having an outstanding Incomplete (I) in any sequential class, will not be permitted to progress to the next class in the sequence until the minimum grade or higher has been earned in that class, or the Incomplete has been replaced by the minimum allowable grade.

The School of Architecture reserves the right to retain permanently for archival or exhibition purposes any student work executed as part of a School of Architecture instructional program. In addition, the School reserves the right to document, reproduce, and publish images of any such student work in PSU publications, printed or electronic, for the purposes of research, publicity, and outreach, giving publication credit to the student.

Owning a laptop computer system will provide critical advantages in your progress through the Architecture program, especially the ability to work in any of our classrooms or studios. Therefore, all students studying Architecture are required to own a laptop computer that meets minimum system specifications published by the School, including software required for courses in our program. Contact the School office for complete information on our Student Laptop Program, or consult the school website.

REQUIREMENTS FOR THE MAJOR IN ARCHITECTURE WITH A CONCENTRATION IN ARCHITECTURAL PROJECT MANAGEMENT

This program is currently suspended and not accepting applications.

In addition to the general University requirements for a degree (p. 32), the student who specializes in architectural project management is expected to meet the following requirements:

Courses

BA 101	Introduction to Business and World Affairs	4
BA 205	Business Communications Using Technology	4
BA 211	Fundamentals of Financial Accounting	4
Stat 243	Introduction to Probability and Statistics I	4
Arch 100	Introduction to Architecture	4
Arch 280	Design Fundamentals Studio 1	6
Arch 281	Design Fundamentals Studio 2	6
Arch 360	Building Tectonics 1	4
Arch 361	Building Tectonics 2	4
Arch 425	Architectural Computer Graphics I	4
Arch 426	Architectural Computer Graphics II	4
Subtotal: 88		

ARCHITECTURE MINOR

REQUIREMENTS

To earn a minor in architecture a student must complete 44 credits including the following:

Courses

Arch 100	Introduction to Architecture	4
Arch 280	Design Fundamentals Studio 1	6
Arch 281	Design Fundamentals Studio 2	6
Arch 230	Architecture and Cultural History I	4
Arch 231	Architecture and Cultural History II	4
Arch 232	Architecture and Cultural History III	4
	Architecture or art studio electives	8
	Adviser-approved upper-division credits in architecture	8

Subtotal: 44

Architecture courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling minor requirements.

Eighteen of the final 24 credits must be taken in residence at PSU.

Graduate programs

The NAAB accredited professional Master of Architecture at Portland State University encourages substantive investigation of significant urban situations and prevailing architectural issues pertinent to contemporary human experience. It meets the demands of an accredited first professional degree in architecture as determined by the National Architectural Accrediting Board.

Through a series of focused design studios, and courses in humanities, technology and the profession, the program encourages depth in questioning, aptitude in discursive thinking, and versatility in means of representation as each student assimilates the skills, knowledge and dexterity to negotiate the professional demands of comprehensive design while developing a mode of creative inquiry that extends beyond established conventions to possibilities yet to be tested in a critical arena. Student generated questions and polemics will form the inspiration for the final year Design Thesis exploration culminating in a unique thesis proposal fully articulated in drawings, models and text.

We offer two tracks towards the Master of Architecture: the 2-year track for candidates with a pre-professional undergraduate degree in Architecture (74 credits); and the 3-year track for candidates with a Bachelor's degree in any discipline (134 credits).

We also offer two graduate certificates: a Graduate Certificate in Public Interest Design consisting of coursework and fieldwork that will prepare future leaders

in architecture and related fields to aid currently underserved populations throughout the world through sustainable design methods, with an emphasis on addressing social, economic and environmental issues; and a Graduate Certificate in Urban Design, focusing on the design of urban public space, offered in partnership with the Toulon School of Urban Studies and Planning.

ADMISSION REQUIREMENTS

To be eligible to enter the 2-year Master of Architecture program a candidate must have completed a 4-year undergraduate pre-professional degree majoring in architecture (BA, BS or BFA), including at least 67.5 quarter credits (45 semester credits) of general education classes. To be eligible to enter the 3-year track a candidate must have completed a Bachelor's degree in any discipline. Admission to the graduate program is based upon satisfaction of the institutional requirements together with competitive application. Submission materials include a portfolio of architectural design and other creative work, a statement of intent, undergraduate GPA, a GRE score, curriculum vitae, and at least 3 letters of recommendation. Please contact the School for detailed application information and deadlines.

Submission materials for the Certificate in Public Interest Design include the above with the statement addressing interest in public interest design and a proposed timeline for completing the Certificate. (A GRE score is not required for the Certificate.) Admission to the Certificate in Urban Design is based on evidence of suitable preparation and the probability of success. See school websites for application criteria and processes. All students wishing to earn the certificates must be formally admitted to the programs via the respective admissions processes.

ARCHITECTURE M.ARCH: 2-YEAR TRACK

DEGREE REQUIREMENTS

Students must complete a minimum of 74 graduate level credits including the following:

Courses

Arch 530	Contemporary Architectural Theory	4
Arch 53x	Architectural Theory Elective	4
Arch 540	Professional Practice	4
Arch 54x	Professional Practice Elective	4
Arch 560	Advanced Architectural Technology	4
Arch 580	Architectural Design Studio 7	6
Arch 581	Architectural Design Studio 8	6
Arch 582	Architectural Design Studio 9	6
Arch 511	Pro-Thesis Seminar	4
Arch 584	Design Development Studio	6

Arch 585	Design Thesis	6
Arch 586	Integrated Systems	6
	5xx Special Interest Electives	14

Subtotal: 74

The Master of Architecture program is designed for students intending to become licensed architects and has full professional accreditation with the National Architectural Accrediting Board.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Portland State University, School of Architecture offers the following NAAB accredited degree program in architecture: M.Arch (pre-professional degree + 74 graduate credits). Next accreditation visit for all programs: 2023.

The School of Architecture reserves the right to retain permanently for archival or exhibition purposes any student work executed as part of a School of Architecture instructional program. In addition, the School reserves the right to document, reproduce, and publish images of any such student work in PSU publications, printed or electronic, for the purposes of research, publicity, and outreach, giving publication credit to the student.

Owning a laptop computer system will provide critical advantages in your progress through the Architecture program, especially the ability to work in any of our classrooms and studios. Therefore, all students studying Architecture are required to own a laptop computer that meets minimum system specifications published by the School, including software required for courses in our program. Contact the School office for complete information on our Student Laptop Program, or consult the school website.

Grades of C+ or lower will not count towards meeting Master of Architecture degree requirements. Students are strongly advised to become familiar with the standards for academic accomplishment described in detail in the Graduate Studies section of this bulletin.

ARCHITECTURE M.ARCH: 3-YEAR TRACK

DEGREE REQUIREMENTS

Students will enter the program in the Summer term and must complete 4-quarters of graduate transition courses with a minimum of 60 credits followed by the requirements for the 2-year track, for a total of 134 credits to graduate. The transition program includes the following:

Courses

Arch 522	Architectural Graphics and Media	4
Arch 536	Architectural History and Theory I	4
Arch 537	Architectural History and Theory II	4
Arch 538	Architectural History and Theory III	4
Arch 539	Architectural History and Theory IV	4
Arch 567	Architectural Structures	4
Arch 568	Architectural Technology I	4
Arch 569	Architectural Technology II	4
Arch 564	Architectural Technology III	4
Arch 570	Architectural Design Transition Studio I	6
Arch 571	Architectural Design Transition Studio II	6
Arch 572	Architectural Design Transition Studio III	6
Arch 573	Architectural Design Transition Studio IV	6

Subtotal: 60

PUBLIC INTEREST DESIGN GRADUATE CERTIFICATE

DEGREE REQUIREMENTS

The course of study for the Certificate in Public Interest Design is divided into credits for coursework and fieldwork, with a minimum of 18 credit hours. Fieldwork will provide students with real world experience in the practice of public interest design through immersed applied-learning opportunities. Fieldwork may be achieved through participation in rotating programs through the Center for Public Interest Design that offer opportunities for engagement and action within a community, or through an approved practicum working with a firm or organization engaged in public interest design work. As the culmination of their certificate, students will submit a thorough portfolio of the work they participated in to complete their fieldwork, containing a thoughtful reflection of their experience within the realm of public interest design and how it can inform their careers going forward.

COURSEWORK**Core Requirements**

Arch 533	Contemporary Issues Seminar - Public Interest Design in Practice	4
Arch 541	Practicum - Public Interest Design Fieldwork	4

Subtotal: 8

Choose at least ONE course from EACH of the three focus areas below, for a combined total of 10 credit hours:

Social

Arch 585	Design Thesis (PID Focus, Architecture students only)	6
Mgmt 521S/Mgmt 521S	Design Thinking for Social Innovation (offered online)	4
PA 543	Creating Collaborative Communities	3
USP 550	Participatory Planning	3
USP 552	Urban Poverty in Critical Perspective	3

Environmental

Arch 563	Building Science Research Topics (PID focus)	4
ESM 588	Environmental Sustainability	4
ESM 528	Urban Ecology	4
Geog 532	Urban Landscapes	4
USP 588	Sustainable Development Practices	3

Economic

Arch 543	Topics in Professional Practice (PID focus)	4
PA 525	Grantwriting for Nonprofit Organizations	3
PA 541	Social Entrepreneurship	3
Mgmt 522S	Money Matters for Social Innovation (offered online)	4
USP 580	Political Economy of Nonprofit Organizations	3
USP 590	Green Economics and Sustainable Development	3

Subtotal: 10

Total Credit Hours: 18**URBAN DESIGN GRADUATE CERTIFICATE**

Two things about cities, their design and planning, have become abundantly clear in the early 21st century: first, even at the largest scales, the details matter, and second, good policy is important, but it's not enough to create a great place. Together, these two lessons of the last 100 years of urban placemaking in America have brought new interest and attention to urban design.

What is Urban Design? The term generally means the process for shaping urban growth, conservation and change - making design decisions about individual buildings as well as big plans about the design of streets, public spaces, and collections of buildings. Urban design combines the aesthetic and three-dimensional design skills of the architect with the decision-making, engagement, and management methodologies of the urban planner. What excites the urban designer is the making of memorable and artful places - places that are pleasant to be in as well as go through, places that reflect the uniqueness of different communities.

The Graduate Certificate in Urban Design at Portland State University, a joint effort of the Toulon School of Urban Studies and Planning and the School of Architecture, has been created to offer planners, designers, and architects the opportunity to engage and incorporate in their own work the principles and methods of urban design. It utilizes the Portland-Vancouver metropolitan region as a laboratory, an urban place renowned for its use of urban design and attention to urban design concerns. This certificate is intended for those who are currently seeking an advanced planning or architecture degree, or who are currently employed as a professional planner, architect, or designer.

COURSEWORK

The Graduate Certificate in Urban Design consists of five required core courses, for a total of 20-22 SCH (course descriptions can be found in the PSU Bulletin).

Core Requirements**Theory**

Arch 532	History and Theory of Urban Design	4
USP 513	Public Space	4

Methods

Arch 521	Urban Design Methods	4
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Practice

USP 575	Urban Design Workshop	4
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Arch 531	Studies in Contemporary Urban Design	4
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M.Arch candidates only may substitute Arch 585 Design Thesis (6 credits) with an urban design topic for USP 575. Subtotal: 20-22

Application and Admission Requirements

Admission to the Graduate Certificate in Urban Design program is limited to graduate students currently enrolled in either the MURP or M.ARCH programs; graduate students in other programs who have an undergraduate or graduate design degree, those who have completed an undergraduate or graduate design degree, or those who have completed a graduate planning degree from an accredited planning degree program.

In addition, admission to graduate study at Portland State University is granted on the basis of evidence of suitable preparation and the probability of success in the intended field of study. Admission generally requires a minimum of an accredited baccalaureate degree and a GPA which meets university graduate admission standards. Typically, students admitted to graduate study at Portland State have an undergraduate or graduate (minimum of 12 credit hours) GPA of at least 3.0.

If you meet all of these requirements, please visit the websites of either the Toulon School of Urban Studies and Planning (www.pdx.edu/usp) or the School of Architecture (www.pdx.edu/architecture) for a link to the online application process.

If you are currently admitted to a masters or doctoral program at PSU, in good academic standing, and currently registered for classes, use the GO-19 form to request addition of the Graduate Certificate program: GO-19 Form

For more information, please contact the GCUD coordinators: Dr. Naomi Adiv, Toulon School of Urban Studies and Planning, nadiv@pdx.edu, 503-725-5171; Clive Knights, School of Architecture, knights@pdx.edu, 503-725-3349.

Course Overlap Between Degrees and Certificates

Graduate courses can be applied to a master's (or a doctoral) degree and a graduate certificate. However, graduate courses cannot be applied to two graduate certificates. See PSU Bulletin for more course overlap information.

School of Art+Design

110 Art Building
503-725-3515
<http://www.pdx.edu/art-design>

- B.A., B.S.—Art History
- B.F.A.—Art Practice, Graphic Design

- Minors in Art History, Design Management, Drawing/Painting/Printmaking, Graphic Design, Photography, Sculpture and Time Arts
- Secondary Education Program
- Certificate in Art History
- M.F.A. in Contemporary Art Practice (Studio and Social Practice tracks)

Driven by a belief in the power of art to shape society, the School of Art+Design and its dynamic faculty provide a place where emerging artists, designers and art historians can question, create, reflect and learn. The School of Art+Design offers an interdisciplinary course of study for students interested in the ways that art, art history and design serve the expressive aspirations of individuals and communities. Students work directly with faculty to plan and carry out a program of study that connects the history, theory and practices of art and design. Studio-based instruction is joined with lectures, seminars and workshop classes. The culture of the School is one of research, writing, art making, critique and reflection.

SCHOOL ARCHIVAL POLICY

The School of Art+Design reserves the right to retain for archival or exhibition purposes any student work executed as part of a School of Art+Design instructional program. In addition, the school reserves the right to document, reproduce, and publish images and any other media containing such student work in PSU publications, printed or electronic, for the purposes of research, publicity, and outreach, giving publication credit to the student.

Undergraduate programs

The school offers the following undergraduate degree options: B.A., B.S. and Certificate in Art History, B.F.A. in Art Practice, and B.F.A. in Graphic Design.

DEGREE MAPS AND LEARNING OUTCOMES

Degree maps display the sequence of courses leading to completion of the major or minor. To view the degree maps and expected learning outcomes for Art+Design's undergraduate degrees, go to <https://www.pdx.edu/degmap/degree-maps> for Art History, Art: Graphic Design, and Art: Practices.

UNDERGRADUATE ADMISSION REQUIREMENTS

Admission to the school is based on general admission to the University. Upper-division coursework is restricted to students who meet requirements established by their major.

Review the Graduation Planner and the Art+Design website for further information.

ART MAJOR AND MINOR DEGREE REQUIREMENTS

All students entering the CORE Program are required to own a laptop computer that meets minimum system specifications as well as software required for courses. Those interested in studying graphic design, please review the laptop policy http://www.pdx.edu/art-design/sites/www.pdx.edu.art-design/files/PSUGD_LaptopGuide_16_17.pdf

ART HISTORY—B.A./B.S.

The study of the history of art is intended to enable the student to analyze diverse works of painting, sculpture, architecture, and new media and to relate artistic production to historical, cultural, and philosophical factors.

Art history is a flexible degree that prepares students for a range of jobs that require strong communication, research, and critical thinking skills.

REQUIREMENTS FOR THE B.A./B.S. IN ART HISTORY

Required Courses

ArH 106	Introduction to Visual Literacy	2
Art 104	CORE: Digital Tools	2
Art 105	CORE: Ideation	2
ArH 204	History of Western Art	4
ArH 205	History of Western Art	4
ArH 206	History of Western Art	4
	Eight 4-credit upper-division art history courses, at least two of which must be seminars: ArH 407, ArH 410, and/or ArH 449.	32
	An additional 16 credits of advisor-approved lower- and/or upper-division courses in art history, art practices, graphic design; courses offered in Architecture, Film, Music & Theater; and/or other select liberal arts courses.	16

Note: ArH 110 Visual Literacy (4 credits) may be taken instead of ArH 106.

Note: ArH 208 Introduction to Asian Art (4 credits) may be substituted for ArH 204, ArH 205, or ArH 206 for students specializing in Asian art.

Total Credit Hours: 66

ART HISTORY—CERTIFICATE

The Certificate in Art History offers the opportunity for students who have already completed a B.A. or B.S. to undertake an in-depth study in art history through a curriculum centered in small discussion-based seminars and other upper-level coursework.

DEGREE REQUIREMENTS

Students who have not already taken the 200-level art history survey sequence or its equivalent elsewhere are encouraged to do so before undertaking the post-baccalaureate certificate upper-level coursework:

ArH 407	Seminar	0-12
ArH 449	Art History Methods	4
	Four Additional Upper-Level ARH courses	16

Total Credit Hours: 24

ART PRACTICE—B.F.A.

The BFA in Art Practice (121 credits) is a professional degree that provides students with knowledge and skills that will prepare them for careers as practicing artists and/or further pursuit of the Master of Fine Art degree. The program offers a comprehensive education in visual art practices, applications, theories, and history, with an emphasis on trends in contemporary art. BFA students are required to research, develop, assemble, present, and defend a body of well conceived and executed work.

For transfer students who have completed 90 credits and are hoping to enter the 3rd year, students must submit a portfolio in Winter term.

DEGREE REQUIREMENTS

100-Level Courses

ArH 106	Introduction to Visual Literacy	2
Art 101	CORE: Surface	5
Art 102	CORE: Space	5
Art 103	CORE: Time	5
Art 104	CORE: Digital Tools	2
Art 105	CORE: Ideation	2
Art 131	Introduction to Drawing I	4

Subtotal: 25

200-Level Courses

ArH 204	History of Western Art	4
	or	
ArH 205	History of Western Art	4

ArH 206	History of Western Art	4	Art 327	Intermediate Art and Social Practices	4
Art 230	Introduction to Drawing II	4	Art 350	Life Drawing II	4
	Choose four of the following 4-credit courses (16 credits total):		Art 356	Visual Storytelling	4
ArH 291	History of Animation	4	Art 357	Intermediate Video	4
Art 227	Introduction to Art and Social Practices	4	Art 358	Video, Design & Community	4
Art 250	Life Drawing I	4	Art 360	Special Topics in Photography	4
Art 255	Two-dimensional Animation I	4	Art 362	Photographic Imaging	4
Art 256	Three-dimensional Animation I	4	Art 365	Digital Portfolios for Visual Artists	4
Art 257	Introduction to Video Art	4	Art 370	Topics in Printmaking Techniques	4
Art 260	Black and White Photography	4	Art 371	Intermediate Printmaking: Thematic Process	4
Art 261	Digital Photography	4	Art 373	Intermediate Sculpture	4
Art 270	Introduction to Printmaking: Relief	4	Art 374	Intermediate Sculpture Topics	4
Art 271	Introduction to Printmaking: Etching	4	Art 375	Mold Making and Casting	4
Art 281	Introduction to Painting	4	Art 387	Intermediate Jewelry and Metalsmithing	4
Art 282	Introductory Level Painting Topics	4	Art 388	Welding and Fabrication	4
Art 287	Introduction to Jewelry and Metalsmithing	4	Art 389	Metal Casting	4
Art 291	Introduction to Sculpture	4	Art 391	Drawing Concepts	4
Art 292	Topics in Basic Sculpture	4	Art 392	Intermediate Painting	4
Art 294	Water Media	4	Art 393	Intermediate Painting Topics	4
Art 295	Sculpture: The Figure	4	Subtotal: 36		
Art 296	Digital Drawing and Painting	4	400-Level Courses		
Art 297	Book Arts	4	ArH 407	Seminar	0-12
Subtotal: 28			or		
300-Level Courses			ArH 449	Art History Methods	4
ArH 383	Western Art in the 20th Century	4	Art 439	BFA Vertical Lab II: Collaboration and Presentation Strategies	4
ArH 384	Western Art in the 20th Century	4	Art 485	Professional Practices for Artists	2
ArH 385	Western Art in the 20th Century	4	Art 496	BFA Project I	4
Art 303	Making and Meaning	4	Art 498	BFA Project II	4
	or		Art 499	BFA Oral Review	2
	One 4-credit advisor-approved 300-level Art Topics course	4		Choose three of the following 4-credit courses (12 credits total):	
Art 330	Critical Theories in Art I	4	Art 427	Advanced Art and Social Practices	4
ArH 398	Contemporary Art	4	Art 450	Life Drawing III	4
Art 336	BFA: Research and Proposal	4	Art 455	Time-Based Art Studio	4
Art 339	BFA Vertical Lab I: Collaboration and Presentation Strategies	4	Art 457	Low Tech Cinema	4
	Choose four of the following 4-credit courses (16 credits total):		Art 461	Advanced Photography Studio	4
Art 312	Art in the Elementary School	4	Art 462	Professional Practices in Photography	4
			Art 479	Advanced Printmaking - Working Place	4
			Art 487	Advanced Jewelry and Metalsmithing	4
			Art 490	Advanced Painting	4
			Art 491	Advanced Painting Topics	4

Art 493	Advanced Drawing Mixed Media	4
Art 494	Advanced Sculpture	4
Art 495	Advanced Sculpture Topics	4
Art 497	A History of Art and Social Practice	4
		Subtotal: 32

Total Credit Hours: 121

GRAPHIC DESIGN—B.F.A.

The graphic design program provides a comprehensive education in design principles, applications, theories, history, and practice.

The first two years of study culminate with a required Sophomore Portfolio Review, occurring once each year at the end of the Spring term. All students majoring in graphic design (including students transferring in with lower- or upper-division credits) must pass this review to enroll in 300-level graphic design courses. Visit the School of Art + Design website (<http://www.pdx.edu/art-design/>) or the graphic design program site (<http://psu.gd>) for details. Only after successfully passing the review are graphic design majors allowed to continue through the program.

All students majoring in graphic design are required to own a laptop computer that meets minimum system specifications, including software required for courses in the program. The current laptop policy is available for review at

http://www.pdx.edu/art-design/sites/www.pdx.edu.art-design/files/PSUGD_LaptopGuide_16_17.pdf.

DEGREE REQUIREMENTS

100-Level Courses

Art 101	CORE: Surface	5
Art 102	CORE: Space	5
Art 103	CORE: Time	5
Art 104	CORE: Digital Tools	2
Art 105	CORE: Ideation	2
ArH 106	Introduction to Visual Literacy	2
Art 111	Design Thinking	4
Art 120	Computer Graphics for Art and Design	4
Art 121	Introduction to Type and Communication Design	4
		Subtotal: 33

200-Level Courses

Art 200	Digital Page Design I	4
Art 210	Digital Imaging and Illustration I	4
Art 224	Narrative and Communication Design	4
Art 225	Communication Design Systems	4

Art 254	Typography I	4
ArH 206	History of Western Art	4
ArH 290	History of Modern Design	4
		Subtotal: 28

Sophomore Portfolio Review

Electives	Choose two 4-credit 100, 200 or 300 level Graphic Design, Art Practice, or Art History courses	8
		Subtotal: 8

300 & 400-Level Required Courses

Art 320	Communication Design Studio III	4
Art 321	Communication Design Studio IV	6
Art 341	Interactive Media I	4
Art 354	Typography II	4
Art 408	Workshop	1-6
Art 470	Design Thesis I	4
Art 471	Design Thesis II	4
Art 472	Communication Design Portfolio	6
		Subtotal: 34

Choose 9 of the Following:

Art 340	Interaction Design Principles	4
Art 299	Special Studies	0-6
Art 300	Digital Page Design II	4
Art 310	Digital Imaging and Illustration II	4
Art 315	Professional Development	4
Art 333	Friendtorship: Design, Art and Social Change	4
Art 342	Interactive Media II	4
Art 345	Introduction to Motion Graphics for Designers	4
Art 353	Typeface Design	4
Art 358	Video, Design & Community	4
Art 367	Design Business Practices	4
Art 399	Special Studies	0-8
Art 425	A+D Projects	4
Art 441	Interface Design	4
		Subtotal: 36

Total Credit Hours: 139

Graduate Programs

The School of Art+Design offers a two-year in-residency program in Studio Practice or a three-year flexible-residency program in Social Practice leading to the Master of Fine Arts degree in Contemporary Art Practice. These 90-credit programs prepare the student to be a practicing artist within a regional, national, and international arts community.

GRADUATE ADMISSION REQUIREMENTS

Application for admission to the MFA program must be made by January 8 prior to the fall term in which the student intends to begin work toward the degree.

Applicants must have a B.A., B.S., or B.F.A. degree in Art or a related field. Exceptions may be made for related experience and a solid art history background.

The school application is submitted online. For the most up to date information on the MFA program and its application process please visit our web site <http://www.pdx.edu/art-design/apply>.

CONTEMPORARY ART PRACTICES M.F.A.

DEGREE REQUIREMENTS

Working with designated faculty during the first year, students are encouraged to explore new media, models and ideas as they develop a proposal for creative activity that culminates with a graduate project in their final year of the program.

Students are admitted conditionally and must pass a midpoint candidacy review to gain regular admission to the university and continue work towards their degree. (Students in-residency receive a candidacy review at the end of their first year; flexible-residency students are reviewed at the end of their second year.)

Students complete 90 credits, distributed in the following way:

- 40 credits Contemporary Art Practice/Directed Studies
- 12 credits Visiting Artist Program/Group Critique
- 12 credits Contemporary Art History/Theory
- 8 credits Electives (outside School of Art+Design)
- 12 credits Graduate Seminars
- 6 credits Exhibition Project/Statement

Upon successful completion of the candidacy review students work with a faculty adviser in their specified concentration to produce their graduate project. The project is presented in a public exhibition or other appropriate form in the spring quarter of the second or third year.

ART EDUCATION: SECONDARY EDUCATION PROGRAM

Grades K through 12 in public schools

Students who plan to teach at the middle- or high-school level should complete a bachelor's degree in Art or

prescribed art foundation/history courses before applying to the School of Education for teacher training in the graduate program.

Prospective teachers should contact an art adviser or the Art Practice Coordinator in the School of Art+Design to secure a departmental recommendation prior to applying to the GSE.

Each student's program is tailored to meet the requirements of the continuing endorsement license. Although licensure requirements are incorporated into degree programs, changes by the Oregon Teacher Standards and Practices Commission during the life of this catalog may alter the requirements. Applicants for licensure must meet the Commission's requirements in force at the time of the licensure application. Please refer to the Graduate School of Education requirements (p. 138).

School of Film

127 Lincoln Hall
tel 503-725-4612
fax 503-725-4624
www.pdx.edu/film/

- B.A., B.S. in Film
- Minor in Film Studies

Undergraduate Program

The Bachelor of Arts/Bachelor of Sciences in Film is designed to offer students the opportunity to major in a diverse film curriculum that unites professional training in all aspects of film production with a deep understanding of film theory and scholarship. We ask students to engage with material that presents a wide range of academic and artistic challenges through critical thinking and hands-on practice. As such, the School of Film understands itself to work within the scholarly and pedagogical traditions of a liberal arts education, and faculty are committed to providing a strong emphasis on written, oral, and visual expression; critical thinking; and diverse and international perspectives.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Film's undergraduate degree, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSIONS REQUIREMENT

See "Admission requirements (p. 8)" for information on general admission to the University.

FILM B.A./B.S.**REQUIREMENTS**

In addition to meeting the general University degree requirements, the major in film will plan a program with a faculty adviser that meets the following minimum requirements:

Core (32 credits)

FILM 131	Film Analysis	4
FILM 132	Introduction to Digital Filmmaking	4
FILM 231	Advanced Film Analysis	4
FILM 280	Classical Film Theory	4
FILM 381	Film History I	4
FILM 382	Film History II	4
FILM 383	Film History III	4
FILM 480	Contemporary Film Theory	4

Critical and Theoretical Practices (16 credits)

Choice of 16 credits from the following:

FILM 257	Narrative Film Production I	4
FILM 258	Documentary Film Production I	4
FILM 358	Narrative Film Production II	4
FILM 359	Narrative Film Production III	4
FILM 360	Topics in Film Production	4
FILM 361	Documentary Film Production II	4
FILM 362	Documentary Film Production III	4
FILM 363	Topics in Experimental Film and Media Production	4
FILM 364	Sound: Production and Design	4
FILM 365	Editing	4
FILM 366	Digital Cinematography	4
FILM 374	Topics in Screenwriting	4
TA 348	Acting for the Camera	4
Art 255	Two-dimensional Animation I	4
Art 257	Introduction to Video Art	4
Art 296	Digital Drawing and Painting	4
Art 356	Visual Storytelling	4
Art 357	Intermediate Video	4
Art 455	Time-Based Art Studio	4
Wr 416	Screenwriting	4

Advanced Studies and Professional Development (12 credits)

Choice of 12 credits from the following:

FILM 401	Research	1-6
FILM 402	Independent Study	1-12
FILM 404	Cooperative Education/Internship	1-12
FILM 405	Reading and Conference	1-6
FILM 406	Project	1-6
FILM 407	Seminar	1-6
FILM 408	Workshop	1-6
FILM 409	Practicum	1-12
FILM 410	Selected Studies	1-6

FILM 450	Portfolio and Professional Development	4
FILM 451	Advanced Production Workshop	4
FILM 460	Advanced Topics in Production	4
FILM 484	Anatomy of a Movie	4
FILM 486	Topics in Film and the Moving Image	4
FILM 487	Topics in International Film and the Moving Image	4

International Cinemas (8 credits)

FILM 487	Topics in International Film and the Moving Image	4
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Additional International Cinema electives that are offered within the university are listed on the program website.

Film Curriculum Electives (12 credits)

Any FILM prefix course except FILM 331U Understanding Movies and FILM 130 Introduction to Digital Filmmaking for Non-Film Majors

Additional electives that are offered within the university are listed on the program website

Subtotal: 80

Courses taken under the differentiated grading option (pass/no pass) will not be accepted toward fulfilling major requirements. Except for FILM 131 and FILM 132, all courses used to satisfy the major requirements must be graded C or above. Majors must be graded at a C+ or above in both FILM 131 and FILM 132. Majors may take FILM 131 and FILM 132 each twice to earn a minimum C+ grade in both to advance to 200-level and upper-division courses.

At least 16 credits of upper-division major courses must be taken in residence at Portland State University.

FILM STUDIES MINOR**REQUIREMENTS**

To earn the interdisciplinary minor in film studies, a student must complete 28 adviser-approved film credits to include the following:

Courses

FILM 131	Film Analysis	4
Eng 304	Critical Theory of Cinema	4
	20 elective credits from the Film curriculum with at least 12 carrying numbers 300 or above	20

Subtotal: 28

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department minor requirements. All courses for the minor must receive a grade of C or above.

At least 16 credits of film studies courses must be taken in residence at Portland State University. Credits will be applicable to the student's major when appropriate.

*Students may elect to pursue the film studies minor in the School of Film, English Department or Communications Department, and should consult the School/Department's film advisor for a complete list of courses that would apply to the minor from offerings in each School/Department.

School of Music & Theater

231 Lincoln Hall
503-725-3011
www.pdx.edu/music

- B.A., B.S.—Musicology/Ethnomusicology, Music Theory, Performance, Sonic Arts & Music Production (SAMP) and Theater Arts
- B.M.—Composition, Jazz Studies, Music Education, and Performance
- Minor in Dance, Minor in Music, Minor in Music History, and Minor in Theater Arts
- Certificate in Dance
- M.A., M.S. —Music and Theater Arts
- M.M.—Conducting, Jazz Studies, and Performance

Mission statement

The School of Music & Theater provides professional training and liberal arts-based education to a highly diverse student body. Our primary goal is to generate and sustain an environment of creative inspiration and excellence in creation, practice, and appreciation of the performing arts. Framed by the University's motto "Let Knowledge Serve the City," the School presents a wide spectrum of activities by students, faculty, and guest artists which enhance the artistic and cultural life of the city of Portland.

We offer a comprehensive array of options for emerging artists, with ten distinct undergraduate degrees including five professional options and four distinct graduate programs. Our dedicated faculty are internationally recognized performers, conductors, composers, directors, playwrights, designers, and scholars. The School embraces the dual goals of open access and outstanding achievement to produce graduates who make a significant impact in the performing arts regionally and beyond.

Undergraduate programs

The School of Music & Theater is located within the hub of musical and theatrical activity in the Pacific Northwest, only three blocks from the Portland Center for the Performing Arts. It maintains close ties to the Oregon Symphony, Portland Opera, Portland Jazz Orchestra, Portland Piano International, Portland Youth

Philharmonic, Chamber Music Northwest, Oregon Repertory Singers, Artists Repertory Theater, Portland Center Stage, Milagro Theatre, and Third Rail Repertory Theater, among other organizations. Faculty and students alike interact with these performing organizations in various ways.

Students have the opportunity to study with faculty members who are internationally recognized performers, conductors, composers, actors, directors, writers, and scholars. Standards are high as students pursue the conservatory-like Bachelor of Music degree or the more general Bachelor of Arts or Science in Music or Theater. Graduates have consistently demonstrated their excellence in the fields of performance, conducting, composition, acting, writing, production, and scholarship. Many are leaders in music, theater, and education around the Northwest and elsewhere.

Programs in the School of Music & Theater are accredited by the National Association of Schools of Music and National Association of Schools of Theater. Graduates have gained admission to both university graduate programs and professional training programs; they have become teachers and university professors; and they have pursued a range of related professions in the arts, education, business, administration, law, social services, and non-profit management.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Music & Theater undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSIONS REQUIREMENT

Admission to the School is based on general admission to the University. (See "Admission requirements (p. 8)" for more information.) Additionally, students seeking a B.A./B.S., B.M., or minor in Music (except for the B.A./B.S in Sonic Arts & Music Production) need to apply to the School and audition before they are accepted into the music program. See the School of Music & Theater website for application and audition requirements and deadlines.

DEGREE REQUIREMENTS

All courses used to satisfy the School of Music & Theater major and minor requirements, whether taken in the School or elsewhere, must be graded C or above. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department major requirements. Seventy-two (72) upper-division credits are required for all Baccalaureate degrees in the School of

Music & Theater. In all degrees where upper division applied music is required, students must pass the mandatory upper division examination.

Admission to the B.M. in Music Education program or the B.M. in Composition program, and the B.A./B.S. in Sonic Arts and Music Production is contingent on a mandatory portfolio review.

MUSIC: MUSICOLOGY/ETHNOMUSICOLOGY B.A./B.S.

Program Coordinator: J. Schiff

REQUIREMENTS

Courses

In addition to meeting the general University degree requirements, music majors seeking the B.A. or B.S. in Musicology/Ethnomusicology must complete the following courses:

Mup 190	Applied Music	3
Mup 290	Applied Music	3
Mus 046	Piano Proficiency Exam	
Mus 047	Final Project	
Mus 111	Music Theory I	3
Mus 112	Music Theory II	3
Mus 113	Music Theory III	3
Mus 114	Sight Singing/Ear Training I	1
Mus 115	Sight Singing/Ear Training II	1
Mus 116	Sight Singing/Ear Training III	1
Mus 188	Performance Attendance (9 terms required)	
Mus 195, 196, 197, or 198	Large Ensemble: Band, Orchestra, Choir, or Jazz Lab Band	6
Mus 205	Listening I	1
Mus 206	Listening II	1
Mus 211	Music Theory IV	3
Mus 212	Music Theory V	3
Mus 213	Music Theory VI	3
Mus 214	Sight Singing/Ear Training IV	1
Mus 215	Sight Singing/ Ear Training V	1
Mus 216	Sight Singing/Ear Training VI	1
Mus 304	Music History: Medieval, Renaissance, and Baroque	4
Mus 305	Music History: Classical and Romantic	4
Mus 306	Music History: 20th Century	4
Mus 411	Topics in Music History	2

Two of the following (8 credits)

Mus 374U	World Music	4
Mus 375U	World Music	4
Mus 376U	American Musical Traditions	4

Upper-division music electives
to be chosen by student in
consultation with an advisor 6

Subtotal: 66

Mus 114 - Mus 116: (concurrent enrollment with Mus 111,
Mus 112, Mus 113 required)

Mus 214 - Mus 216: (concurrent enrollment with Mus 211,
Mus 212, Mus 213 required)

Music majors must enroll in Applied Music and the
appropriate Large Ensemble each term until requirements
are met.

In the Spring term of their sophomore year, interested
students will submit a letter of interest, writing sample
(2500 words), and current DARS report with a minimum
cumulative GPA of 3.0.

All candidates for this degree must complete a final project
approved by the Musicology Program Coordinator. The
project may be one of the following: 1) Research Paper
(15-20 pages), 2) Paper Presentation with Performance, or
3) Video Critique of a current musical event.

MUSIC: THEORY B.A./B.S.

Program Coordinator: B. Hansen

REQUIREMENTS

In addition to meeting the general University degree
requirements, music majors seeking the B.A. or B.S. in
Music Theory must complete the following courses:

Courses

Mup 190	Applied Music	3
Mup 290	Applied Music	3
Mus 046	Piano Proficiency Exam	
Mus 047	Final Project	
Mus 111	Music Theory I	3
Mus 112	Music Theory II	3
Mus 113	Music Theory III	3
Mus 114	Sight Singing/Ear Training I	1
Mus 115	Sight Singing/Ear Training II	1
Mus 116	Sight Singing/Ear Training III	1
Mus 188	Performance Attendance (9 terms required)	
Mus 195, 196, 197, or 198	Large Ensemble: Band, Orchestra, Choir, or Jazz Lab Band	6
Mus 205	Listening I	1
Mus 206	Listening II	1
Mus 211	Music Theory IV	3
Mus 212	Music Theory V	3
Mus 213	Music Theory VI	3
Mus 214	Sight Singing/Ear Training IV	1
Mus 215	Sight Singing/ Ear Training V	1
Mus 216	Sight Singing/Ear Training VI	1

Mus 304	Music History: Medieval, Renaissance, and Baroque	4
Mus 305	Music History: Classical and Romantic	4
Mus 306	Music History: 20th Century	4
Mus 311	Formal Analysis	3
Mus 312	Orchestration	3
Mus 313	Counterpoint	3
Mus 421	Analysis of Contemporary Music or	3
Mus 422	Analytical Techniques	3
	Upper-division music electives to be chosen by student in consultation with an advisor	4
Subtotal: 66		

Mus 114 - Mus 116: (concurrent enrollment with Mus 111, Mus 112, Mus 113 required)

Mus 214 - Mus 216: (concurrently enrollment with Mus 211, Mus 212, Mus 213 required)

Music majors must enroll in Applied Music and the appropriate Large Ensemble each term until requirements are met.

Interested students will submit a sample of their analytical work for admittance to the major after completing Music Theory II or upon transferring to PSU. Students must meet GPA requirement of 3.0 and minimum grades of B in all theory and sight singing/ear training classes.

All candidates for this degree must complete a final project approved by the Theory Program Coordinator. The project may be one of the following: 1) Extensive analysis of a composition or 2) Performance of a composition transcribed from one medium to another.

MUSIC: PERFORMANCE B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, music majors seeking the B.A. or B.S. in Performance must complete the following courses:

Courses

Mup 190	Applied Music	3
Mup 290	Applied Music	3
Mup 390 or 490	Applied Music	6
Mus 046	Piano Proficiency Exam	
Mus 047	Final Project or	
Mus 048	Junior Recital	

Mus 111	Music Theory I	3
Mus 112	Music Theory II	3
Mus 113	Music Theory III	3
Mus 114	Sight Singing/Ear Training I	1
Mus 115	Sight Singing/Ear Training II	1
Mus 116	Sight Singing/Ear Training III	1
Mus 188	Performance Attendance (9 terms required)	
Mus 195, 196, 197, or 198	Large Ensemble: Band, Orchestra, Choir, or Jazz Lab Band	6
Mus 205	Listening I	1
Mus 206	Listening II	1
Mus 211	Music Theory IV	3
Mus 212	Music Theory V	3
Mus 213	Music Theory VI	3
Mus 214	Sight Singing/Ear Training IV	1
Mus 215	Sight Singing/ Ear Training V	1
Mus 216	Sight Singing/Ear Training VI	1
Mus 304	Music History: Medieval, Renaissance, and Baroque	4
Mus 305	Music History: Classical and Romantic	4
Mus 306	Music History: 20th Century	4
Mus 351	Accompanying (For piano majors in lieu of 2 credits of Mus 395, 396, or 397)	2
Mus 395, 396, 397, or 398	Large Ensemble: Band, Orchestra, Choir, or Jazz Lab Band	6
	Upper-division music electives to be chosen by student in consultation with an advisor	4

Subtotal: 66

Mus 114 - Mus 116: (concurrent enrollment with Mus 111, Mus 112, Mus 113 required)

Mus 214 - Mus 216: (concurrent enrollment with Mus 211, Mus 212, Mus 213 required)

Music majors must enroll in Applied Music and the related Large Ensemble each term.

Candidates for this degree must complete a final project consisting of one of the following: 1) Half recital (30 minutes), 2) Performance project, or 3) Regular performances on area recitals.

SONIC ARTS AND MUSIC PRODUCTION (SAMP) B.A./B.S.

Program Coordinator: A. Willette

REQUIREMENTS

In addition to meeting the general University degree requirements, music majors seeking the B.A. or B.S. in Sonic Arts and Music Production must complete the following courses:

Courses

Mus 045	Portfolio Review	
Mus 101	Contemporary Music Theory I	4
Mus 102	Contemporary Music Theory II	4
Mus 103	Contemporary Music Theory III	4
Mus 188	Performance Attendance (6 terms required)	
Mus 191	Group Lessons for Beginners	2
Mus 192	Group Lessons for Beginners	2
Mus 193	Group Lessons for Beginners	2
Mus 194, 195, 196, 197, or 198	Small or Large Ensemble	3
Mus 225	Music Technology Lab (3 terms required)	1
Mus 245	SAMP I: Audio Recording	3
Mus 246	SAMP II: Studio Techniques	3
Mus 247	SAMP III: Studio Production	3
Mus 344	Sonic Arts and Music Production Laptop Ensemble (3 terms required)	1
Mus 345	SAMP IV: Acoustics for Musicians	3
Mus 346	SAMP V: Music with Visual Media	3
Mus 347	SAMP VI: Integrated Sound Arts	3
Mus 445	Business of Music	3
Mus 476	Computer Music Composition	3
Two of the following (8 credits)		
Mus 301U	Survey of Music Literature I: Medieval to Classical Era	4
Mus 302U	Survey of Music Literature II: Romantic to Modern Era	4
Mus 355U	Jazz History	4
Mus 365U	Film Music	4
Mus 374U	World Music	4
Mus 375U	World Music	4
Mus 376U	American Musical Traditions	4
Mus 377U	World Music: Latin America and the Caribbean	4
	Upper-division music electives to be chosen by student in consultation with an advisor.	7

Subtotal: 66

Interested students will submit two creative projects and a written statement of purpose for acceptance as a SAMP major after completing Contemporary Music Theory and

Mus 247 or upon transferring to PSU with equivalent coursework.

THEATER ARTS B.A./B.S.

Area Coordinator: K. Magaldi

Undergraduates in theater arts are expected to acquire basic skills in performance, design and production, practice, and dramatic literature and theater history. These basic skills are developed in the core requirements. The remaining credits are met through a selected option, performance, design/production, or theater studies including criticism, literature and dramatic writing, which provides for flexibility and allows a student to specialize in an area of interest. Students choose from electives in Music & Theater and Traditional Japanese Drama courses in World Languages and Literatures.

REQUIREMENTS

In addition to meeting the general University degree requirements, the Major in Theater Arts must complete 68 adviser-approved theater arts credits to include the following:

38 Core Credits

TA 111	Stagecraft I	3
TA 112	Stagecraft II	3
TA 114	Technical Theater Production I	1
TA 115	Technical Theater Production II	1
TA 121	Introduction to Design for Theater	4
TA 151	Introduction to Theater Arts & Practice	4
TA 201	Script Analysis	4
TA 248	Acting I: Process	4
TA 316	Technical Theater Lab	2
TA 363	Development of Dramatic Art I	4
TA 364	Development of Dramatic Art II	4
TA 454	Directing I	4

8 credits chosen from the following:

TA 322U	History of Dress I	4
TA 323U	History of Dress II	4
TA 330U	Multicultural Theater	4
TA 369U	Women, Theater, and Society	4
TA 467	Modern Theater I	4
TA 468	Modern Theater II	4
TA 471	Theater History: Periods and Topics	1-4
TA 472	Theater History: Major Figures	1-4

2 credits of the following:

TA 333	Workshop Theater: Directing/Stage Management/Dramaturgy	1-2
TA 334	Workshop Theater: Scenery, Costume & Lighting Production 3	1-2

TA 335	Workshop Theater: Management/Publicity	1
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with a maximum of 3 credits in any of the 300 workshops. Workshop credits in excess of this maximum may be used to satisfy elective and general requirements.

20 credits of the Theater Electives

20 elective credits from the theater curriculum including Jpn 422, Traditional Japanese Drama, with at least 12 credits at the 300 level or above.

Subtotal: 68

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department major requirements. All courses used to satisfy the major requirements must be graded C or above.

At least 20 credits of upper-division Theater Arts courses, including a minimum of 2 credits from TA 333, TA 334 and TA 335 must be taken in residence at Portland State University.

COMPOSITION B.M.

Area Coordinator: B. Miksch

REQUIREMENTS

In addition to meeting the general University degree requirements, music majors seeking the professional music degree (Bachelor of Music in Composition) must complete the following courses:

Courses

Mup 190	Applied Music Performance	6
Mup 290	Applied Music Performance	6
Mup 390	Applied Music Composition	6
Mup 490	Applied Music Composition	6
Mus 046	Piano Proficiency Exam	
Mus 048	Junior Recital (30 minutes minimum)	
Mus 049	Senior Recital (30 minutes minimum)	
Mus 111	Music Theory I	3
Mus 112	Music Theory II	3
Mus 113	Music Theory III	3
Mus 114	Sight Singing/Ear Training I	1
Mus 115	Sight Singing/Ear Training II	1
Mus 116	Sight Singing/Ear Training III	1
Mus 188	Performance Attendance (9 terms required)	
Mus 195, 196, 197, or 198	Large Ensemble: Band, Orchestra, Choir, or Jazz Lab Band	6
Mus 205	Listening I	1
Mus 206	Listening II	1
Mus 211	Music Theory IV	3
Mus 212	Music Theory V	3

Mus 213	Music Theory VI	3
Mus 214	Sight Singing/Ear Training IV	1
Mus 215	Sight Singing/ Ear Training V	1
Mus 216	Sight Singing/Ear Training VI	1
Mus 240	Composition I	2
Mus 241	Composition I	2
Mus 242	Composition I	2
Mus 291	Advanced Class Piano	2
Mus 292	Advanced Class Piano	2
Mus 293	Advanced Class Piano	2
Mus 304	Music History: Medieval, Renaissance, and Baroque	4
Mus 305	Music History: Classical and Romantic	4
Mus 306	Music History: 20th Century	4
Mus 311	Formal Analysis	3
Mus 312	Orchestration	3
Mus 313	Counterpoint	3
Mus 320	Fundamentals of Conducting	2
Mus 394, 395, 396, 397, or 398	Large or Small Ensemble	3
Mus 411	Topics in Music History	2
Mus 421	Analysis of Contemporary Music	3
Mus 474 or 475	Midi Applications	2
Mus 476	Computer Music Composition	3

One of the following:

Mus 355U	Jazz History	4
Mus 374U	World Music	4
Mus 375U	World Music	4
Mus 376U	American Musical Traditions	4

Music electives to be chosen by student in consultation with an advisor 15

Subtotal: 123

Mus 114 – Mus 116: concurrent enrollment with Mus 111, 112, 113 required

Mus 214 - Mus 216: concurrent enrollment with Mus 211, 212, 213 required

Music majors must enroll in Applied Music and the related Large Ensemble each term. Students must earn 6 credits at each level of Applied Music. With School approval, the distribution of Applied Music credits may be altered; however, a minimum of 12 of the 24 credits must be completed at the upper-division level. A minimum of 3 of the 9 Ensemble credits must be completed at the upper-division level.

Music majors must enroll in the related Chamber Music Ensemble.

NOTE: Applied Music performance (instrumental or vocal) through Mus 290 with 12 accumulated credits is

required. Interested students will submit a portfolio of compositions for acceptance as a Composition Major after the Mus 240, Mus 241, Mus 242 sequence. Transfer students may be admitted on the basis of their portfolio of compositions and their transcript. Portfolio review begins in the Spring for the following academic year.

JAZZ STUDIES B.M.

Area Coordinator: G. Colligan

REQUIREMENTS

In addition to meeting the general University degree requirements, music majors seeking the professional music degree (Bachelor of Music in Jazz Studies) must complete the following courses:

Courses

Mup 190	Applied Music	6
Mup 290	Applied Music	6
Mup 390	Applied Music	6
Mup 490	Applied Music	6
Mus 046	Piano Proficiency Exam	
Mus 048	Junior Recital (30 minutes minimum)	
Mus 049	Senior Recital (60 minutes minimum)	
Mus 111	Music Theory I	3
Mus 112	Music Theory II	3
Mus 113	Music Theory III	3
Mus 114	Sight Singing/Ear Training I	1
Mus 115	Sight Singing/Ear Training II	1
Mus 116	Sight Singing/Ear Training III	1
Mus 188	Performance Attendance (9 terms required)	
Mus 198	Jazz Lab Band	6
Mus 205	Listening I	1
Mus 206	Listening II	1
Mus 211	Music Theory IV	3
Mus 212	Music Theory V	3
Mus 213	Music Theory VI	3
Mus 214	Sight Singing/Ear Training IV	1
Mus 215	Sight Singing/ Ear Training V	1
Mus 216	Sight Singing/Ear Training VI	1
Mus 271	Jazz Improvisation	2
Mus 272	Jazz Improvisation	2
Mus 273	Jazz Improvisation	2
Mus 291	Advanced Class Piano	2
Mus 292	Advanced Class Piano	2
Mus 293	Advanced Class Piano (Jazz section)	2
Mus 304	Music History: Medieval, Renaissance, and Baroque	4
Mus 305	Music History: Classical and Romantic	4
Mus 306	Music History: 20th Century	4

Mus 320	Fundamentals of Conducting	2
Mus 355U	Jazz History	4
Mus 394	Chamber Music	6
Mus 398	Jazz Lab Band	6
Mus 411	Topics in Music History	2
Mus 424	Instrumental Jazz Arranging	2
Mus 425	Instrumental Jazz Arranging	2
Mus 426	Instrumental Jazz Arranging	2
Mus 471	Advanced Jazz Improvisation	2
Mus 472	Advanced Jazz Improvisation	2
Mus 473	Advanced Jazz Improvisation	2
Mus 474	Midi Applications	2
	Music electives to be chosen by student in consultation with an advisor	9

Subtotal: 123

Mus 114 – Mus 116: (concurrent enrollment with Mus 111, Mus 112, Mus 113 required)

Mus 214 – Mus 216: (jazz section), concurrent enrollment with Mus 211, Mus 212, Mus 213 required.

Music majors must enroll in Applied Music and the related Large Ensemble each term. Students must earn 6 credits at each level of Applied Music. With School approval, the distribution of Applied Music credits may be altered; however, a minimum of 12 of the 24 credits must be completed at the upper-division level. A minimum of 6 of the 12 Large Ensemble credits must be completed at the upper-division level.

Music majors must enroll in the appropriate Chamber Music Ensemble.

MUSIC EDUCATION B.M.

Program Coordinator: D. Glaze

REQUIREMENTS

In addition to meeting the general University degree requirements, music majors seeking the professional music degree (Bachelor of Music in Music Education) must complete the following courses:

Courses

Mup 190	Applied Music	3
Mup 290	Applied Music	3
Mup 390 or 490	Applied Music	6
MuEd 045	Music Education Degree Entry Portfolio	
Mus 046	Piano Proficiency Exam	
Mus 047 or 048	Final Project or Junior Recital (30 minutes minimum)	
Mus 111	Music Theory I	3
Mus 112	Music Theory II	3

Mus 113	Music Theory III	3
Mus 114	Sight Singing/Ear Training I	1
Mus 115	Sight Singing/Ear Training II	1
Mus 116	Sight Singing/Ear Training III	1
Mus 188	Performance Attendance (9 terms required)	
Mus 195, 196, 197, or 198	Large Ensemble: Band, Orchestra, Choir, or Jazz Lab Band	6
Mus 205	Listening I	1
Mus 206	Listening II	1
Mus 211	Music Theory IV	3
Mus 212	Music Theory V	3
Mus 213	Music Theory VI	3
Mus 214	Sight Singing/Ear Training IV	1
Mus 215	Sight Singing/ Ear Training V	1
Mus 216	Sight Singing/Ear Training VI	1
Mus 291	Advanced Class Piano	2
Mus 292	Advanced Class Piano	2
Mus 293	Advanced Class Piano	2
Mus 304	Music History: Medieval, Renaissance, and Baroque	4
Mus 305	Music History: Classical and Romantic	4
Mus 306	Music History: 20th Century	4
Mus 312	Orchestration	3
Mus 320	Fundamentals of Conducting	2
Mus 321	Instrumental Conducting	2
Mus 322	Choral Conducting	2
MuEd 328	Introduction to Music Education	2
MuEd 332	String Techniques	1
MuEd 333	Guitar Techniques	1
MuEd 334	Vocal Techniques K-12	1
MuEd 335	Percussion Techniques	1
Mus 395, 396, 397, or 398	Large Ensemble: Band, Orchestra, Choir, or Jazz Lab Band	6
Mus 409	Practicum	2
Mus 411	Topics in Music History	2
Mus 474	Midi Applications	2
MuEd 484	Music with Children	3

One of the following:

Mus 355U	Jazz History	4
Mus 374U	World Music	4
Mus 375U	World Music	4
Mus 376U	American Musical Traditions	4

Mus 114 – Mus 116: (concurrent enrollment with Mus 111, Mus 112, Mus 113 required)

Mus 214 – Mus 216: (concurrent enrollment with Mus 211, Mus 212, Mus 213 required)

Music majors must enroll in Applied Music and the related Large Ensemble each term. Students must earn 3 credits at each level of Applied Music. With School approval, the

distribution of Applied Music credits may be altered; however, a minimum of 6 of the 12 must be completed at the upper-division level. A minimum of 6 of the 12 Large Ensemble credits must be completed at the upper-division level.

Additionally, students need to choose a teaching sub-speciality and complete the following courses in the appropriate track:

Instrumental Track

Mus 197	Chorus	1
Mus 397	Chorus	1
Mus 409	Marching Band Practicum	1
MuEd 336	Flute and Double Reeds	1
MuEd 337	Clarinet and Saxophone	1
MuEd 338	High Brass Techniques	1
MuEd 339	Low Brass Techniques	1
MuEd 341	Jazz Techniques	1
MuEd 422	Instrumental Literature and Rehearsal Techniques I	3
MuEd 423	Instrumental Literature and Rehearsal Techniques II	3
	Instrumental Track Music Electives	13

Choral/General Track

Mus 397	Chorus	1
MuEd 480, 481, or 482	Kodály Training: Level I, II, or III	5
MuEd 340	Wind Instrument Techniques	3
MuEd 420	Choral Literature and Rehearsal Techniques I	3
MuEd 421	Choral Literature and Rehearsal Techniques II	3
	Choral Track Music Electives	12

Total Teaching Sub-Specialty Credits: 27

Subtotal: 123

PERFORMANCE B.M.**REQUIREMENTS**

In addition to meeting the general University degree requirements, music majors seeking the professional music degree (Bachelor of Music in Performance) must complete the following courses:

Courses

Mup 190	Applied Music	6
Mup 290	Applied Music	6
Mup 390	Applied Music	6
Mup 490	Applied Music	6
Mus 046	Piano Proficiency Exam	
Mus 048	Junior Recital	

	(30 minutes minimum)	
Mus 049	Senior Recital	
	(60 minutes minimum)	
Mus 111	Music Theory I	3
Mus 112	Music Theory II	3
Mus 113	Music Theory III	3
Mus 114	Sight Singing/Ear Training I	1
Mus 115	Sight Singing/Ear Training II	1
Mus 116	Sight Singing/Ear Training III	1
Mus 188	Performance Attendance	
	(9 terms required)	
Mus 194 & 394	Chamber Music	6
	(minimum 3 upper division credits)	
Mus 195, 196, or 197	Large Ensemble: Band, Orchestra, or Chorus	6
Mus 205	Listening I	1
Mus 206	Listening II	1
Mus 211	Music Theory IV	3
Mus 212	Music Theory V	3
Mus 213	Music Theory VI	3
Mus 214	Sight Singing/Ear Training IV	1
Mus 215	Sight Singing/ Ear Training V	1
Mus 216	Sight Singing/Ear Training VI	1
Mus 291	Advanced Class Piano	2
Mus 292	Advanced Class Piano	2
Mus 293	Advanced Class Piano	2
Mus 304	Music History: Medieval, Renaissance, and Baroque	4
Mus 305	Music History: Classical and Romantic	4
Mus 306	Music History: 20th Century	4
Mus 311	Formal Analysis	3
Mus 312	Orchestration	3
Mus 313	Counterpoint	3
Mus 320	Fundamentals of Conducting	2
Mus 351	Accompanying	2
	(For piano majors in lieu of 2 credits of Mus 395, 396, or 397)	
Mus 395, 396, or 397	Large Ensemble: Band, Orchestra, or Chorus	6
Mus 411	Topics in Music History	2
Mus 481	Pedagogy	3
One of the following (4 credits):		
Mus 355U	Jazz History	4
Mus 374U	World Music	4
Mus 375U	World Music	4
Mus 376U	American Musical Traditions	4
	Music electives to be chosen by student in consultation with an advisor	17
Subtotal: 123		

Mus 114-116: (concurrent enrollment with Mus 111, Mus 112, Mus 113 required)

Mus 214-216: (concurrent enrollment with Mus 211, Mus 212, Mus 213 required)

Music majors must enroll in Applied Music and the related Large Ensemble each term. Students must earn 6 credits at each level of Applied Music. With School approval, the distribution of Applied Music credits may be altered; however, a minimum of 12 of the 24 must be completed at the upper-division level. A minimum of 6 of the 12 Large Ensemble credits must be completed at the upper-division level.

Music majors must enroll in the appropriate Chamber Music Ensemble.

PERFORMANCE WITH AN EMPHASIS IN VOICE B.M.

Program Coordinator: C. Meadows

REQUIREMENTS

In addition to meeting the general University degree requirements, music majors seeking the professional music degree (Bachelor of Music in Performance with an Emphasis in Voice) must complete the following courses:

Courses

Mup 190	Applied Music	6
Mup 290	Applied Music	6
Mup 390	Applied Music	6
Mup 490	Applied Music	6
Mus 046	Piano Proficiency Exam	
Mus 048	Junior Recital	
	(30 minutes minimum)	
Mus 049	Senior Recital	
	(60 minutes minimum)	
Mus 111	Music Theory I	3
Mus 112	Music Theory II	3
Mus 113	Music Theory III	3
Mus 114	Sight Singing/Ear Training I	1
Mus 115	Sight Singing/Ear Training II	1
Mus 116	Sight Singing/Ear Training III	1
Mus 188	Performance Attendance	
	(9 terms required)	
Mus 197	Chorus	6
Mus 205	Listening I	1
Mus 206	Listening II	1
Mus 211	Music Theory IV	3
Mus 212	Music Theory V	3
Mus 213	Music Theory VI	3
Mus 214	Sight Singing/Ear Training IV	1
Mus 215	Sight Singing/ Ear Training V	1
Mus 216	Sight Singing/Ear Training VI	1
Mus 291	Advanced Class Piano	2

Mus 292	Advanced Class Piano	2
Mus 293	Advanced Class Piano	2
Mus 304	Music History: Medieval, Renaissance, and Baroque	4
Mus 305	Music History: Classical and Romantic	4
Mus 306	Music History: 20th Century	4
Mus 320	Fundamentals of Conducting	2
Mus 397	Chorus	6
Mus 411	Topics in Music History	2
Mus 427	Opera Workshop	1
Mus 428	Opera Production	2
Mus 481	Pedagogy	3
Mus 485	Diction for Singers: Italian, German, and French	2
Mus 486	Diction for Singers: Italian, German, and French	2
Mus 487	Diction for Singers: Italian, German, and French	2
Mus 490	Fundamentals of Acting for Singers	3

One of the following (4 credits)

Mus 355U	Jazz History	4
Mus 374U	World Music	4
Mus 375U	World Music	4
Mus 376U	American Musical Traditions	4

One of the following (3 credits)

Mus 430	Song Literature	3
Mus 436	Opera Literature	3

Two of the following (8 credits)

It 103	First-Year Italian Term 3	4
Fr 103	First-Year French Term 3	4
Ger 103	First-Year German Term 3	4

	Music electives to be chosen by student in consultation with advisor	8
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Subtotal: 123

Mus 114-Mus 116: (concurrent enrollment with Mus 111, Mus 112, Mus 113 required)

Mus 214- Mus 216: (concurrent enrollment with Mus 211, Mus 212, Mus 213 required)

Music majors must enroll in Applied Music and the related Large Ensemble each term. Students must earn 6 credits at each level of Applied Music. With departmental approval, the distribution of Applied Music credits may be altered; however, a minimum of 12 of the 24 credits must be completed at the upper-division level. A minimum of 6 of the 12 Large Ensemble credits must be completed at the upper-division level.

Mus 427: Opera Workshop is a one-credit ensemble. Voice majors are required to take Opera Workshop twice.

DANCE MINOR

The Dance Minor has been suspended effective Fall 2017, and no applications are being accepted at this time.

MUSIC MINOR**REQUIREMENTS**

To earn a Minor in Music, a student must complete 30 advisor-approved credits (17 credits must be in residence at Portland State University), to include the following:

Courses

Mup 190	Applied Music	3
Mus 101, 102, 103	Contemporary Music Theory I, II, & III	12
	OR	
Mus 111, 112, 113	Music Theory I, II, & III	9
	and	
Mus 114, 115, 116	Sight-Singing/Ear Training I, II & III	3
Mus 188	Performance Attendance (3 terms required)	
Mus 195, 196, 197, or 198	Band, Orchestra, Chorus, or Jazz Lab Band	3
	One of the following:	
Mus 203, 274, 301, or 302	Music of the Western World, Introduction to World Music, or Survey of Music Literature	4
	Upper-division Music History, World Music, Popular Music, or Jazz History Course	4
	Music Electives	4

Subtotal: 30

Mus 114 – Mus 116: Concurrent enrollment in Mus 111, Mus 112, and Mus 113 is required.

Students who choose to minor in Jazz Performance will take Applied Music in the Jazz Area, Jazz History, and Jazz Lab Band.

MUSIC HISTORY MINOR

Program Coordinator: J. Schiff

REQUIREMENTS

To earn a Minor in Music History, a student must complete 30 advisor-approved credits (17 credits must be in

residence at Portland State University), to include the following:

Courses

Mus 101	Contemporary Music Theory I	4
Mus 102	Contemporary Music Theory II	4
Mus 188	Performance Attendance (3 terms required)	
Mus 203, 301, or 302	Music in the Western World or Survey of Music Literature I or II	4
Mus 304, 305, or 306	Music History	4

Any combination of the following for 14 credits:

Mus 191	Group Lessons for Beginners	2
Mus 192	Group Lessons for Beginners	2
Mus 193	Group Lessons for Beginners	2
Mus 194 or 197	Chamber Music or Chorus	1
	(up to 3 credits)	
Mus 304	Music History: Medieval, Renaissance, and Baroque (if not taken as required)	4
Mus 305	Music History: Classical and Romantic (if not taken as required)	4
Mus 306	Music History: 20th Century (if not taken as required)	4
Mus 355U	Jazz History	4
Mus 356U	Jazz And American Culture: How History Shaped Our Music, Then and Now	4
Mus 360U	The Guitar: its History and Music	4
Mus 361U	History of Rock Music I (1950- 1970)	4
Mus 362U	History of Rock Music II (1970- Present)	4
Mus 374U	World Music	4
Mus 375U	World Music	4
Mus 376U	American Musical Traditions	4
Mus 377U	World Music: Latin America and the Caribbean	4
Mus 411	Topics in Music History (up to 4 credits)	2

Subtotal: 30

THEATER ARTS MINOR

Program Coordinator: K. Magaldi

To earn a minor in theater arts a student must complete 28 adviser-approved credits to include the following:

REQUIREMENTS

Courses

TA 151	Introduction to Theater Arts & Practice or TA 305U	Understanding Theater	4
TA 201	Script Analysis		4

Four credits chosen from:

TA 369U	Women, Theater, and Society	4
TA 471	Theater History: Periods and Topics	1-4
TA 472	Theater History: Major Figures	1-4

Theater Arts Electives

	Theater Arts electives (at least 8 upper-division)	16
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Subtotal: 28

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department minor requirements. All courses used to satisfy the minor requirements must be graded C or above.

At least 16 credits must be taken in residence at Portland State University.

DANCE CERTIFICATE

The Dance Certificate has been suspended effective Fall 2017, and no applications are being accepted at this time.

Graduate programs

Graduate Coordinator: R. Babcock

The School of Music & Theater offers graduate work in music leading to the degrees of Master of Music (M.M.) in Performance, Master of Music (M.M.) in Conducting, Master of Music (M.M.) in Jazz Studies, as well as a Master of Arts in Music (M.A.) and a Master of Science in Music (M.S.). The M.A./M.S. degrees are general master's degrees in music. Graduate students in music may also pursue recommendation for standard teaching certification. This curriculum differentiates between specialists in vocal music and instrumental music, but candidates in both areas complete a core of required courses.

ADMISSION REQUIREMENTS

For admission to graduate study the student must hold a bachelor's degree representing a course of study equivalent to that pursued by PSU undergraduates in music.

Students applying to the M.A./M.S. programs must complete an interview and submit one of the following as part of their application process:

1. History Paper
2. Theory Paper, descriptive analysis or composition.
3. Audition Performance demonstrating mastery at the MUP 490 level.
4. Teaching Certificate.

Students applying to the M.M. in Performance/Conducting/Jazz Studies must complete an interview and audition. See the School of Music & Theater's website at www.pdx.edu/the-arts/music for specific area requirements.

All Masters Programs

In addition to meeting the general requirements for admission to graduate study in the University, each student must successfully take the music placement examination prepared by and administered in the School of Music & Theater. The placement examination must be passed or the recommended review course must be passed with a grade of B or better before a student may enroll in a graduate history or theory course. All courses used to satisfy graduate requirements, whether taken in the School or elsewhere, must be graded B or above.

MUSIC M.A./M.S. PROGRAM

CORE CURRICULUM

All of the following:

Mus 056	Graduate Music History Entrance Exam	
Mus 057	Graduate Music Theory Entrance Exam	
Mup 590	Applied Music	2
Mup 591	Applied Music in Secondary Area	2
Mus 506	Graduate Project or Recital	2
Mus 511	Music Research Methods	3
Mus 520	Analytical Techniques	3
	Ensemble: Chosen with advice of graduate faculty	3
	Education/Pedagogy (chosen with adviser's assistance)	6

Mup 591: (may substitute Mup 590 credits with adviser approval)

One of the following: (2-3 credits)

Mus 522	Advanced Orchestral Arranging	3
Mus 523	Advanced Choral Arranging	3
Mus 524	Instrumental Jazz Arranging	2

One of the following (3 credits)

Mus 530	Song Literature	3
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Mus 531	Chamber Music Literature	3
Mus 532	Band Wind Literature	3
Mus 533	Orchestral Literature	3
Mus 534	Choral Literature	3
Mus 536	Opera Literature	3
Mus 537	Keyboard Literature	3
Mus 538	Keyboard Literature	3
Mus 539	Instrumental Literature	3
Mus 540	Jazz Literature	3

Three of the following: (6 credits)

Mus 560	Music History: The Medieval Period	2
Mus 561	Music History: The Renaissance Period	2
Mus 562	Music History: The Baroque Period	2
Mus 563	Music History: The Classical Period	2
Mus 564	Music History: The Romantic Period	2
Mus 565	Music History: Early 20th Century	2
Mus 566	Music History: Music Since 1950	2

One of the following (determined in conjunction with advisor) (3 credits)

Mus 541	Advanced Conducting Methods	3
Mus 542	Advanced Choral Conducting	3
Mus 543	Advanced Instrumental Conducting	3

Elective Studies Selected with an Advisor 9-10

Subtotal: 45

Students must pass Mus 056, the Music History Entrance Exam, before taking any graduate music history course with the exception of Mus 529, Grad History Review. A grade of B or better in Mus 529 will constitute a Pass for the Music History Entrance Exam. Similarly, students must pass Mus 057, the Music Theory Entrance Exam, before taking any graduate music theory course with the exception of Mus 512, Graduate Theory Review. A grade of B or better in Mus 512 will constitute a Pass for the Music Theory Entrance Exam.

All M.A./M.S. candidates must take a final written examination. All graduate students must receive a grade of B or above in music courses.

THEATER ARTS M.A./M.S. PROGRAM

Advisor: R. Wattenberg

Admission to the MA/MS in Theater Arts has been suspended effective fall 2015, and no applications are being accepted at this time.

M.M. PROGRAM

MASTER OF MUSIC IN PERFORMANCE

For an M.M. in Vocal Performance consult the School of Music & Theater for Language Requirement.

All of the following:

Mus 056	Graduate Music History Entrance Exam	
Mus 057	Graduate Music Theory Entrance Exam	
Mup 590	Applied Music	12
Mus 506	Graduate Project or Recital	2
Mus 511	Music Research Methods	3
Mus 520	Analytical Techniques	3

Two of the following: (4 credits)

Mus 560	Music History: The Medieval Period	2
Mus 561	Music History: The Renaissance Period	2
Mus 562	Music History: The Baroque Period	2
Mus 563	Music History: The Classical Period	2
Mus 564	Music History: The Romantic Period	2
Mus 565	Music History: Early 20th Century	2
Mus 566	Music History: Music Since 1950	2

Two of the following: (6 credits)

Mus 530	Song Literature	3
Mus 531	Chamber Music Literature	3
Mus 532	Band Wind Literature	3
Mus 533	Orchestral Literature	3
Mus 534	Choral Literature	3
Mus 536	Opera Literature	3
Mus 537	Keyboard Literature	3
Mus 538	Keyboard Literature	3
Mus 539	Instrumental Literature	3
Mus 540	Jazz Literature	3

One of the following (3 credits)

Mus 581	Pedagogy	3
Mus 582	Pedagogy	3
Mus 583	Pedagogy	3

Chosen with advice of graduate faculty: (3 credits)

Mus 527	Opera Workshop	1
Mus 594	Chamber Music	1
Mus 595	Band	1
Mus 596	Orchestra	1

Mus 597	Chorus	1
Mus 598	Jazz Lab Band	1

Elective Studies Selected with an Advisor	9
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Subtotal: 45

Students must pass Mus 056, the Music History Entrance Exam, before taking any graduate music history course with the exception of Mus 529, Grad History Review. A grade of B or better in Mus 529 will constitute a Pass for the Music History Entrance Exam. Similarly, students must pass Mus 057, the Music Theory Entrance Exam, before taking any graduate music theory course with the exception of Mus 512, Graduate Theory Review. A grade of B or better in Mus 512 will constitute a Pass for the Music Theory Entrance Exam.

All M.M. degree candidates must take a final oral examination. All graduate students must receive a grade of B or above in music courses.

MASTER OF MUSIC IN PERFORMANCE (COLLABORATIVE PIANO)

All of the following:

Mup 590	Applied Music	12
Mus 056	Graduate Music History Entrance Exam	
Mus 057	Graduate Music Theory Entrance Exam	
Mus 506	Graduate Project or Recital	1-4
Mus 511	Music Research Methods	3
Mus 520	Analytical Techniques	3
Mus 550	Collaborative Piano Literature Strings	3
Mus 551	Collaborative Piano Literature Winds and Brass	3
Mus 552	Advanced Keyboard Techniques	3
Mus 585	Diction for Singers: Italian, German, and French	2
Mus 586	Diction for Singers: Italian, German, and French	2
Mus 587	Diction for Singers: Italian, German, and French	2

Two of the following: (4 credits)

Mus 562	Music History: The Baroque Period	2
Mus 563	Music History: The Classical Period	2
Mus 564	Music History: The Romantic Period	2
Mus 565	Music History: Early 20th Century	2
Mus 566	Music History: Music Since 1950	2

One of the following: (3 credits)

Mus 530	Song Literature	3
Mus 536	Opera Literature	3

Chosen with advice of graduate faculty: (3 credits)

Mus 527	Opera Workshop	1
Mus 594	Chamber Music	1
Mus 595	Band	1
Mus 596	Orchestra	1
Mus 597	Chorus	1

Subtotal: 45

Students must pass Mus 056, the Music History Entrance Exam, before taking any graduate music history course with the exception of Mus 529, Grad History Review. A grade of B or better in Mus 529 will constitute a Pass for the Music History Entrance Exam. Similarly, students must pass Mus 057, the Music Theory Entrance Exam, before taking any graduate music theory course with the exception of Mus 512, Graduate Theory Review. A grade of B or better in Mus 512 will constitute a Pass for the Music Theory Entrance Exam.

All M.M. degree candidates must take a final oral examination. All graduate students must receive a grade of B or above in music courses.

MASTER OF MUSIC IN CONDUCTING**All of the following:**

Mus 056	Graduate Music History Entrance Exam	
Mus 057	Graduate Music Theory Entrance Exam	
Mus 506	Graduate Project or Recital	2
Mus 511	Music Research Methods	3
Mus 513	Score Reading	3
Mus 520	Analytical Techniques	3

One of the following: (3 credits)

Mus 522	Advanced Orchestral Arranging	3
Mus 523	Advanced Choral Arranging	3

One of the following: (3 credits)

Mus 532	Band Wind Literature	3
Mus 533	Orchestral Literature	3
Mus 534	Choral Literature	3

Three of the following (9 credits)

Mus 541	Advanced Conducting Methods	3
Mus 542	Advanced Choral Conducting	3
Mus 543	Advanced Instrumental Conducting	3

Mus 541, Mus 542, and Mus 543: May be taken multiple times.

Two of the following: (4 credits)

Mus 560	Music History: The Medieval Period	2
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Mus 561	Music History: The Renaissance Period	2
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Mus 562	Music History: The Baroque Period	2
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Mus 563	Music History: The Classical Period	2
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Mus 564	Music History: The Romantic Period	2
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Mus 565	Music History: Early 20th Century	2
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Mus 566	Music History: Music Since 1950	2
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Chosen with advice of graduate faculty (6 credits)

Mus 595	Band	1
Mus 596	Orchestra	1
Mus 597	Chorus	1

Elective Studies Selected with an Advisor	9
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Subtotal: 45

Students must pass Mus 056, the Music History Entrance Exam, before taking any graduate music history course with the exception of Mus 529, Grad History Review. A grade of B or better in Mus 529 will constitute a Pass for the Music History Entrance Exam. Similarly, students must pass Mus 057, the Music Theory Entrance Exam, before taking any graduate music theory course with the exception of Mus 512, Graduate Theory Review. A grade of B or better in Mus 512 will constitute a Pass for the Music Theory Entrance Exam.

All M.M. degree candidates must take a final oral examination. All graduate students must receive a grade of B or above in music courses.

MASTER OF MUSIC IN JAZZ STUDIES**All of the following:**

Mus 056	Graduate Music History Entrance Exam	
Mus 057	Graduate Music Theory Entrance Exam	
Mup 590	Applied Music	12
Mus 506	Graduate Project or Recital	2
Mus 511	Music Research Methods	3
Mus 520	Analytical Techniques	3
Mus 526	Instrumental Jazz Arranging	2
Mus 540	Jazz Literature	3
Mus 567	Jazz History	2
Mus 581	Pedagogy	3

Mus 520: jazz section

One of the following (2 credits)

Mus 560	Music History: The Medieval Period	2
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Mus 561	Music History: The Renaissance Period	2
Mus 562	Music History: The Baroque Period	2
Mus 563	Music History: The Classical Period	2
Mus 564	Music History: The Romantic Period	2
Mus 565	Music History: Early 20th Century	2
Mus 566	Music History: Music Since 1950	2

Complete 3 credits from the following: (3 credits)

Mus 594	Chamber Music	1
Mus 598	Jazz Lab Band	1
	Elective Studies Selected with Advisor	10

Subtotal: 45

Students must pass Mus 056, the Music History Entrance Exam, before taking any graduate music history course with the exception of Mus 529, Grad History Review. A grade of B or better in Mus 529 will constitute a Pass for the Music History Entrance Exam. Similarly, students must pass Mus 057, the Music Theory Entrance Exam, before taking any graduate music theory course with the exception of Mus 512, Graduate Theory Review. A grade of B or better in Mus 512 will constitute a Pass for the Music Theory Entrance Exam.

All M.M. degree candidates must take a final oral examination. All graduate students must receive a grade of B or above in music courses.

THE SCHOOL OF BUSINESS

Office of the Dean

320 Karl Miller Center, 503-725-3721

<http://www.pdx.edu/sba>

Cliff Allen, Dean Pamela Tierney, Associate Dean, Faculty And Research

Erica Wagner, Associate Dean, Undergraduate Programs

Melissa Appleyard, Associate Dean, Graduate Programs

Undergraduate Programs Office

220 Karl Miller Center, 503-725-3712

<http://www.pdx.edu/sba/>

Graduate Programs Office

210 Karl Miller Center, 503-725-8001

<https://www.pdx.edu/sba/graduate-business-programs>

Undergraduate Programs

B.A., B.S.—Business Administration Minor—Advertising (for graphic design majors), Advertising (for communications majors), Business Administration Certificate in International Business Certificate in Food Industry Leadership Certificate in Entrepreneurship Certificate in Athletic & Outdoor Industry Certificate in Social Innovation and Social Entrepreneurship Postbaccalaureate Certificate in Accounting

Graduate Programs

M.B.A.—Master of Business Administration M.S.—Master of Finance M.S.—Master of Science in Global Supply Chain Management M.B.A. Healthcare— The Healthcare M.B.A. MRED —Master of Real Estate Development MTAX -- Master of Taxation Certificate in Athletic & Outdoor Industry Certificate in Business Intelligence & Analytics Certificate in Global Supply Chain Management Certificate in HR Analytics Certificate in Real Estate (administered by CUPA) Certificate in Social Innovation Certificate in Taxation

Accreditation Status

The School of Business and its programs are nationally accredited by AACSB — Association to Advance Collegiate Schools of Business. The School's accounting program has separate accreditation from the AACSB. Such accreditation means that The School of Business is part of the community of leading business schools that are recognized for their commitment to continuous quality improvement in management education through engagement, innovation, and impact. As an AACSB

accredited institution, The School of Business holds itself accountable for improving business practice through scholarly education and impactful intellectual contributions.

Undergraduate programs

The undergraduate program in business administration adheres to the principle that in a free society the business enterprise must be responsibly and efficiently managed. The undergraduate degree program includes both business and non-business courses. The mission of the undergraduate program is to provide students with a broad understanding of business and to equip them with the dynamic skills required to work successfully in a complex and changing global environment.

Special emphasis options are available within the business administration major and are designed to prepare students for positions in accounting, advertising, finance, human resource management, management & leadership, marketing, and supply chain management. A business minor is available for all non-business majors as is the advertising minor for graphic design or communications majors. Certificates in entrepreneurship, food industry management, the athletic and outdoor industry, international business, and social innovation & social entrepreneurship are also available. The School of Business offers study abroad opportunities at the undergraduate and graduate levels.

The School of Business offers online business concentrations in Management & Leadership, Human Resource Management or Supply & Logistics Management.

Student advising

Undergraduate academic and career advisors are located in the Karl Miller Center Suite 220. Students should make appointments with their advisor at least twice a year to ensure that requirements are being met and to discuss their career plans.

The School of Business Web site, <http://www.pdx.edu/sba>, contains announcements concerning upcoming activities, scholarships, policies, and other information vital to all business students. Information about student organizations, internships, and career opportunities can also be found there.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for the School of Business' undergraduate degrees, go to

www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Students may declare business administration as their major field of study at any time after admission to Portland State University. However, students must formally join The School of Business before they are allowed to enroll in almost all 200-, 300- or 400-level business administration courses or to graduate with a business administration degree.

To join The School of Business, students must be formally admitted to Portland State University and fill out the School's opt-In form available on <https://www.pdx.edu/sba/opt-in>.

PREREQUISITE BUSINESS REQUIREMENTS

Courses

BA 101	Introduction to Business and World Affairs	4
BA 205	Business Communications Using Technology	4
BA 211	Fundamentals of Financial Accounting	4
BA 213	Decision Making with Accounting Information	4
Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4
Stat 241	Application of Statistics for Business	4
	or	
Stat 243	Introduction to Probability and Statistics I	4
Comm 220	Public Speaking	4
Wr 121	College Writing	4
	or	
	Freshman Inquiry	

BA 101: (waived for post-baccalaureate students)

BA 205: (waived for post-baccalaureate students)

Students can submit the SBA opt-in form anytime during the term, it is available online at <https://www.pdx.edu/sba/opt-in>.

Undergraduate Academic Standing Policy

A minimum Portland State University cumulative GPA of 2.50 and a minimum GPA of 2.50 in business administration courses taken at Portland State University are required to remain in good standing as a business administration student and for graduation with a degree in business administration.

Failure to maintain a 2.50 PSU cumulative GPA and a 2.50 PSU business GPA will place a student on probation. The probationary period is defined as three terms in which the

student takes classes. By the end of the third term of probation, the student must raise the deficient GPA(s) to the required minimum. If a student does not raise their GPAs above 2.50 by the end of the third term on probation, they will be academically disqualified from the School of Business and removed from all restricted business courses.

Students who are disqualified must raise their GPAs above 2.50 and re-apply to join the School of Business if they desire to complete degree requirements for programs in the School of Business. Business students are limited to only one readmission to the School of Business.

PSU Academic Dismissal

If a student who has been admitted to the School of Business is academically dismissed by the University, that student will automatically lose School of Business admitted status. If a student who has lost admitted status desires to complete degree requirements for programs in the School of Business, that student must reapply. At the time of reapplication the student must meet the required 2.50 PSU and PSU School of Business GPA requirement.

BUSINESS ADMINISTRATION B.A./B.S.

Requirements for major

In addition to meeting the general University requirements, the student in business administration must take at least 82 credits in business administration courses of which at least 41 must be taken at PSU. This total will include the business core (50 credit hours if taken at Portland State), at least one option area (20-36 credits, depending on option chosen), and enough business electives to meet the minimum of 82 credits in business. Each student in business must also take at least 90 credits outside the School of Business. A minimum of 180 credits is required for graduation.

Prerequisite policy

Prerequisites are strictly enforced in the School of Business and exceptions are not made. Before enrolling in any business course, students should read the course description and must complete any prerequisites that are listed. If a student completes a course before completing the prerequisite and later completes the prerequisite, credit for the prerequisite will not count toward 82 credits required in business. The instructor and/or School's Administration have the authority to administratively drop any student who has not completed the prerequisites. Students must successfully complete the prerequisite course with a C- or better.

Second Degree Students

Second degree (post-baccalaureate) students need to meet the requirements for their major. In addition, post-baccalaureate students must request a review of their first degree to determine if they have met the Bachelor of Arts or Bachelor of Science requirements. This can be done by

emailing their business advisor with the request for a first degree evaluation. Post-baccalaureate students should also meet with an advisor to determine if any of their previous course work counts towards the business major requirements and to plan out their curriculum and to discuss career resources.

REQUIREMENTS

Business administration students must complete the following courses with a C- or better:

Business specialization options

(see descriptions below)

Subtotal: 20-36		
Core courses		
BA 101	Introduction to Business and World Affairs	4
BA 205	Business Communications Using Technology	4
BA 211	Fundamentals of Financial Accounting	4
BA 213	Decision Making with Accounting Information	4
BA 301	Research and Analysis of Business Problems	4
BA 302	Organizational Behavior	0-4
BA 303	Business Finance	4
BA 311	Marketing Management	4
BA 325	Competing with Information Technology	4
BA 339	Operations and Quality Management	0-4
BA 385	Business Environment	4
BA 495	Business Strategy	6
Subtotal: 50		

BUSINESS CONCENTRATIONS

The School of Business offers concentrations for those students seeking specialization in a subject area. Each student must select one of these concentrations and complete the required courses with a C- or better. Concentration requirements are satisfied by taking 20 to 36 upper-division credits beyond the required business core. The courses specified to satisfy the concentration requirements are:

Accounting

Objective: to enable students to acquire the necessary technical and professional skills for successful careers in public, management, or governmental accounting.

Actg 335	Accounting Information Systems and Analytic Fundamentals	4
Actg 360	Management Accounting	4
Actg 381	Financial Accounting and Reporting I	4

Actg 382	Financial Accounting and Reporting II	4
Actg 383	Financial Accounting and Reporting III	4
Actg 421	Introduction to Taxation	4
Actg 430	Governmental Accounting	2
Actg 492	Auditing Concepts and Practices	4
Actg 495	Integrated Accounting Issues	4

One upper-division accounting course to be chosen from:

Actg 422	Advanced Taxation	4
Actg 445	Forensic Accounting	4
Actg 460	Advanced Managerial Accounting	4
Actg 485	Business Law	4
Actg 490	Advanced Financial Accounting	2
Actg 493	Advanced Auditing	4

Subtotal: 36

Students electing accounting as a concentration will also be required to take:

Phl 308U	Elementary Ethics	4
	or	
Phl 309U	Business Ethics	4
PS 101	United States Government	4
PS 102	United States Politics	4
	Anthropology, psychology, or sociology	3

Advertising Management

Objective: to provide the knowledge and skills necessary for students to create and execute advertising strategy within the broader context of the marketing function.

Mktg 340U	Advertising	4
Mktg 363	Consumer Behavior and Customer Satisfaction	4
Mktg 441	Media Strategy	4
Mktg 442	Creative Strategy	4
Mktg 443	Advertising Campaigns	4
Mktg 460	Marketing Research	4

Subtotal: 24

Note: Students who wish to complete a double concentration in advertising management and marketing cannot apply more than eight common MKTG elective credits to each concentration.

Finance

Objective: to provide undergraduate students with the educational foundation and exposure to the broad field of finance, enabling them to develop their financial decision making skills so that they can be successful as finance professionals in their chosen financial career path.

Actg 381	Financial Accounting and Reporting I	4
Fin 319	Intermediate Financial Management	4
Fin 352	Investments	4
Fin 441	Fundamentals of Derivative Securities	4
Fin 449	Valuation	4
Fin 456	International Financial Management	4
Fin 465	Finance Topics and Cases	4
Subtotal: 28		

Human Resource Management

Objective: to provide a conceptual framework, as well as the necessary knowledge, skills, and abilities, that allow students to understand what is required to more effectively manage human resources within an organization.

Mgmt 351	Human Resource Management	4
Mgmt 461	Reward Systems and Performance Management	4
Mgmt 471	Staffing and Employee Selection	4
Mgmt 493	Human Resource Strategy	4
	Upper-division management courses	4
Subtotal: 20		

Note: Students who wish to complete a double concentration in management & leadership and human resource management cannot apply more than eight common credits to each concentration.

Management and Leadership

Objective: to provide requisite knowledge and skills which enable the student to meet the challenges of leadership and managerial responsibilities.

Mgmt 351	Human Resource Management	4
Mgmt 428	Team Processes	4
Mgmt 445	Organizational Design and Change	4
Mgmt 464	Contemporary Leadership Issues	4
	Upper-division management courses	4
	Elective	4
Subtotal: 24		

Of the 8 credits of electives, four credits must be taken within the management area at the 400 level.

The final four credits can be either: within the management area at the 400 level or from an approved list of courses.

Note: Students who wish to complete a double concentration in management and leadership and human resource management cannot apply more than eight common credits to each concentration.

Marketing

Objective: To provide students with a strong academic foundation in marketing and to enable students to gain the strategic, technical, and professional skills necessary for career success.

Mktg 363	Consumer Behavior and Customer Satisfaction	4
Mktg 460	Marketing Research	4
Mktg 464	Marketing Strategy and Management	4

Track courses or marketing electives: (16 credits)

Students are encouraged to complete 8 of their 16 elective credits from one of the following specialized tracks, or they may choose 16 credits of marketing electives, of the total elective marketing credits, 8 credits must be at the 400 level. Mktg 404 credit may not be used to satisfy marketing option area requirements. *Note: Students who wish to complete a double option in marketing and advertising management cannot apply more than eight common MKTG elective credits to each option.*

Food and consumer package goods marketing track:

Mktg 375	Retailing	4
Mktg 435	Consumer Package Goods Marketing	4

Global marketing management track:

Mktg 376	International Business	4
Mktg 466	Principles of International Marketing	4

Upper-division Marketing Electives

Upper-division marketing elective(s)	8
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Subtotal: 28

Note: Students who wish to complete a double option in marketing and advertising management cannot apply more than eight common MKTG elective credits to each option.

Supply and Logistics Management

Objective: to provide students with an interdisciplinary foundation in supply chain management in preparation for careers in purchasing, industrial distribution, logistics, transportation, and operations management.

GSCM 439	Global Sourcing and Negotiation	4
GSCM 479	Global Supply Chain Strategy and Sustainability Management	4

Three of the following electives as approved by supply and logistics management faculty:

ISQA 430	Industrial Transportation and Freight	4
ISQA 431	Transportation Regulation	4
GSCM 440	Governmental Procurement	4
ISQA 449	Process Control and Improvement	4
GSCM 450	Project Management	4

GSCM 451	Business Forecasting	4
GSCM 454	Supply and Logistics Negotiations	4
GSCM 458	Purchasing and Logistics within the Food Industry	4
GSCM 459	Production Planning and Control	4
ISQA 410	Selected Topics	1-6
	Other electives as approved by Supply and Logistics faculty	
Subtotal: 24		

School of Business Honors Track

The School of Business Honors Track is a two year program with approximately 50 undergraduate business students (25 accepted each year) who are admitted to the School of Business. Honors track students challenge themselves and polish their professional and academic business skills through a combination of special honors track sections of core business classes and a variety of extra-curricular workshops and events. Honors track students enjoy special opportunities to interact with business professionals, including CEOs, presidents, and vice-presidents of local and national companies. The honors track classes prepare students for MBA level work. Successful completion of all track requirements results in a separate designation on the student's diploma.

Requirements for honors track designation include:

- Honors only sections for BA 301, BA 311, BA 385, and BA 495
- Perspectives in Leadership: BA 423H
- Required half-day workshop each term (excluding summer term)
- Advanced Business Communications Workshop
- Executive Days in Residence
- Honors Book Group
- Advanced Microsoft Excel Workshop

For admission to the honors track, students must be degree-seeking undergraduates who are admitted to the School of Business by the end of the summer term prior to starting the honors track. Applications are evaluated based on GPA, application essays, and recommendation letters. Students must apply in the spring or summer term before the fall term in which they wish to be admitted to the honors track. A maximum of 25 students are accepted each fall for admission to the honors track.

Honors track requirements are subject to change. For the most current honors track requirements and more detailed application information visit: www.pdx.edu/sba/business-honors-track.

BUSINESS ADMINISTRATION MINOR

The School of Business offers a 28 credit minor to students majoring in other disciplines who wish to add a business background to their program of study. The minor emphasizes an applied approach to the basic functional areas of business, including accounting and finance, organizational management, marketing and advertising, and entrepreneurship. It is well-suited for the student majoring in the liberal arts and sciences, architecture, fine and performing arts, engineering, urban and public affairs, or pre-health sciences who intends to work as an independent contractor or operate a small firm or practice.

REQUIREMENTS

Coursework requirements for the minor in business administration are as follows. Please note that courses in the minor (except BA 101 and Fin 218) may not be used to satisfy business major requirements.

Courses

BA 101	Introduction to Business and World Affairs	4
Fin 218	Personal Finance	4
BA 306U	Essentials of Finance for Non-Business Majors	4
BA 316U	Essentials of Marketing for Non-Business Majors	4
BA 326U	Essentials of Management for Non-Business Majors	4
BA 336U	Essentials of Information Technology for Non-Business Majors	4
BA 346U	Essentials of Entrepreneurship for Non-Business Majors	4

Subtotal: 28

The PSU cumulative GPA and the PSU business GPA must be 2.00 for a student to graduate with the minor.

ADVERTISING MANAGEMENT MINOR FOR GRAPHIC DESIGN MAJORS

The advertising management minor for graphic design majors provides critical marketing and advertising business skills to students who plan careers in the graphic design field. The six courses in the minor provide exposure to and understanding of advertising and marketing principles, including marketing's role in business, consumer behavior, identifying target markets, creative and media strategy development, and promotional campaign planning. All courses must be graded, the minimum passing grade for the Advertising Management Minor courses is a C-.

REQUIREMENTS

Interested students should contact their advisor in the School of Business Undergraduate Programs Office to plan out the required courses. Courses in the minor include:

Courses

BA 316U	Essentials of Marketing for Non-Business Majors	4
Mktg 340U	Advertising	4
Mktg 363	Consumer Behavior and Customer Satisfaction	4
Mktg 442	Creative Strategy	4
Mktg 443	Advertising Campaigns	4
	One 400-level Mktg elective	4

Subtotal: 24

Total Credit Hours: 24

ADVERTISING MINOR FOR COMMUNICATIONS MAJORS

REQUIREMENTS

The Advertising Management minor for communication majors requires 24 credit hours. The objective of this minor is to familiarize communication majors with general business practices and the marketing communications industry specifically. The undergraduate minor's focus is interdisciplinary, including courses in the School of Business and the communication department. Twenty of these hours will be taken within the School of Business and four credit hours can be a communication or business elective. All courses must be graded, the minimum passing grade for the Advertising Management Minor courses is a C-.

Five required courses:

BA 316U	Essentials of Marketing for Non-Business Majors	4
Mktg 340U	Advertising	4
Mktg 441	Media Strategy	4
Mktg 442	Creative Strategy	4
Mktg 443	Advertising Campaigns	4

Mktg 340U is a prerequisite for all other MKTG courses and should be taken early.

Mktg 441 & Mktg 442 are prerequisites for Mktg 443.

Plus one Communication or Business elective from the following:

Mktg 448	Digital Media Planning and Design	4
Comm 312U	Media Literacy	4
Comm 314U	Persuasion	4
Comm 341	Introduction to Public Relations	4
Comm 389U	Ethics of Human Communication	4
Comm 429	Health Communication Campaigns	4
Comm 487	Propaganda, Public Relations, and Media	4

Comm 399	Special Studies	1-6
Mktg 399	Special Studies	1-6

Comm 399 must be Intro to Political Communication

Mktg 399 must be two terms of FIR: Ad Agency Internship

Undergraduate Certificates

POST-BACCALAUREATE ACCOUNTING CERTIFICATE

The Postbaccalaureate Accounting Certificate is a program for students who have earned one or more baccalaureate degrees and who wish to complete the coursework to prepare for a career in accounting. These recommendations include courses in accounting providing professional preparation for public or industry accounting. In addition, courses are recommended in law, basic business, and in other related areas for those whose undergraduate degree is not in business administration.

PROGRAM PREREQUISITES

The following must be complete prior to beginning the upper division program requirements:

1. Have earned a baccalaureate degree recognized by the PSU Office of Admissions, Registration and Records and be formally admitted as a post-baccalaureate student to PSU.

2. Have completed the following prerequisite courses with a grade of C- or better:

BA 211	Fundamentals of Financial Accounting	4
BA 213	Decision Making with Accounting Information	4
Stat 241	Application of Statistics for Business	4
Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4

Subtotal: 20

Note: BA 101 prerequisite for BA 211 is waived for post-baccalaureate students; contact your advisor via email for a registration override to get into BA 211. Contact information for all School of Business Career & Academic Advisors is available online at www.pdx.edu/sba/career-academic-advising.

REQUIREMENTS

Core

Actg 335	Accounting Information Systems and Analytic Fundamentals	4
Actg 360	Management Accounting	4
Actg 381	Financial Accounting and Reporting I	4

Actg 382	Financial Accounting and Reporting II	4
Actg 383	Financial Accounting and Reporting III	4
Actg 421	Introduction to Taxation	4
Actg 430	Governmental Accounting	2
Actg 492	Auditing Concepts and Practices	4
Actg 495	Integrated Accounting Issues	4

Additional credits chosen from: (7-8 credits)

Actg 422	Advanced Taxation	4
Actg 445	Forensic Accounting	4
Actg 460	Advanced Managerial Accounting	4
Actg 485	Business Law	4
Actg 490	Advanced Financial Accounting	2
Actg 493	Advanced Auditing	4

Other required credits

BA 303	Business Finance	4
BA 325	Competing with Information Technology	4

It is recommended that PBAC Students take ACTG 281 to cover debits and credits.

At least 30 credits required for the certificate and at least 27 of the credits in accounting must be taken in residence at Portland State University. Candidates must achieve at least a grade of C- in each course presented for the certificate. Entrance and exit GPA requirements are the same as for the School of Business undergraduate program. For retention in the program, grade point averages will be based only on coursework taken in the certificate program.

Post-baccalaureate students who do not hold a degree from a university where the language of instruction was English must satisfy the WR 323 requirement before completion of a certificate program. Students who received an accounting degree outside the United States may earn the post-baccalaureate accounting certificate. Students who received an accounting degree in the United States are not eligible to earn an accounting certificate.

Total Credit Hours: 48-50

ATHLETIC & OUTDOOR INDUSTRY CERTIFICATE

From concept to consumer, the Athletic and Outdoor Industry certificate program explores the unique challenges and competitive issues within the athletic and outdoor industry. It is for students who want to go beyond product design and sports management to examine the larger competitive industry issues in marketing, retailing, distribution, and sales.

Students are required to complete degree requirements specified for a business administration major in order to be awarded the Athletic & Outdoor Industry Certificate.

Registration for Mktg 436 & Mktg 437 is restricted to students who have been approved through the online application (available via a link in the banweb.pdx.edu course footnotes). To be awarded the certificate, students must complete all certificate requirements specified below:

REQUIREMENTS

Required Courses

Mktg 338U	Professional Selling	4
Mktg 373	Merchandising Management	4
Mktg 375	Retailing	4
Mktg 436	Competitive Dynamics in the Athletic and Outdoor Industry	4
Mktg 437	Product Management in the Athletic and Outdoor Industry	4

Subtotal: 20

Students may substitute Mktg 467 Sales Management for Mktg 338U if they choose.

ENTREPRENEURSHIP CERTIFICATE

Learn the fundamentals of entrepreneurship by identifying market needs, conceptualizing approaches to fulfill those needs, researching potential avenues, assessing enduring business models, structuring the venture, raising funding for launch and sustained growth.

Students are required to complete the degree requirements specified for a business administration major in order to be awarded the Entrepreneurship Certificate. In addition, students must complete all certificate requirements specified below:

CERTIFICATE REQUIREMENTS

Requirements List

Fin 310U	Entrepreneurial Finance and Accounting	4
Mktg 338U	Professional Selling	4
Mgmt 481	Entrepreneurship	4
	Emphasis Area Course	4

Subtotal: 16

Emphasis Area (choose 1 additional course from below; all prerequisites must be met).

Small/Family Business

- Mgmt 409 - Practicum: Small Business Consulting (Business Outreach Program) (4 credit hours)
- Mgmt 404, Mktg 404, Fin 404 - Internship

Internship options include, but are not limited to:

- Internship with the Portland State Business Accelerator

- Internship with a BA 495 Capstone Client (4 credit hours)

Innovation

- Mgmt 410- Developing Creativity and Innovation in Business (4 credit hours)

Alternatively, students can select the one additional course from other certificate programs:

- Athletic & Outdoor Industry, Social Innovation, or Food Industry Leadership

Therefore, there will be a total of four courses completed for the certificate: three core and then one chosen by the student to tailor the experience to his/her interest.

Alternatively, students can select the 1 additional course from external certificate programs in Athletic & Outdoor, Social Innovation, the Business of Craft Brewing, or the Food Industry Management Certificate.

Alternatively, students can select the 1 additional course from external certificate programs in Athletic & Outdoor, Social Innovation, the Business of Craft Brewing, or the Food Industry Management Certificate.

FOOD INDUSTRY LEADERSHIP CERTIFICATE

The Food Industry Leadership Certificate provides undergraduate students with an educational foundation in the field of retail food distribution, marketing, and management. Certificate requirements include the study of the overall competitive business marketplace of the retail food industry from a cross-industry perspective, consumer trends, trade relationships, supply and logistics issues, retailing and distribution, purchasing and merchandising, electronic commerce, and industry practicum.

Students are required to complete degree requirements specified for a business administration option in order to be awarded the Food Industry Leadership Certificate. In addition, students must complete all certificate requirements specified below:

REQUIREMENTS

Courses

Mktg 375	Retailing	4
Mktg 435	Consumer Package Goods Marketing	4
GSCM 458	Purchasing and Logistics within the Food Industry	4

Mktg 409	Practicum Elective	1-12 4
		Subtotal: 20

Mktg 409: 4 credits required.

Approved electives include: Mgmt 351, Mktg 373, Mgmt 464, Actg 460, Mktg 467, Mktg 338U or other courses with permission of program director.

INTERNATIONAL BUSINESS CERTIFICATE

The International Business Certificate provides undergraduate students with an educational foundation in the field of international business. Certificate requirements include the study of cultural, economic, social, and political aspects affecting business operations.

Students are required to complete degree requirements specified for a business administration option in order to be awarded the International Business Certificate. In addition, students must complete all certificate requirements as specified below.

REQUIREMENTS

The international business certificate allows students to choose one of two options:

1. Study Abroad Option - Study abroad and take 24 credits of pre-approved internationally related courses.

2. Campus Option - Take 36 credits at PSU of pre-approved internationally related courses.

Abroad Option = 24 credits + Study Abroad

International business requirements (12 credits)

Selected any 12 credits from:

- Fin 456 International Financial Management
- Mktg 376 International Business
- Mgmt 446 International Management
- Mktg 466 Principles of International Marketing
- or other courses approved by advisor.

Language, Area Studies, or International Economics (12 credits)

Select any 12 credits of language, economics, or global perspectives cluster courses

- Language – Any foreign language offered at PSU
- Area Studies – Selected from the global perspectives cluster list or other courses with advisor approval. The area study courses will be upper division and must contribute to the student's understanding of the area of the *foreign language* being studied.
- Economics courses selected from: Ec 340, Ec 440, Ec 441, Ec 442, Ec 443, Ec 445, Ec 446, Ec 447, Ec 448, Ec 450 or with approval, other upper division economic courses related to international studies.

Study Abroad or International Internship Experience (No Credit Minimum)

- This requirement can be fulfilled with any PSU-sanctioned study abroad or international internship. Internship must be sponsored for credit by a faculty member of the School of Business.

Campus Option = 36 credits

Language (12 credits)

- Any foreign language offered at PSU - 12 credits of the same language - any level.

Area Studies or International Economics (12 credits)

- Area Studies – Selected from the global perspectives cluster list or other courses with advisor approval. The area study courses will be upper division and must contribute to the student's understanding of the area of the *foreign language* being studied.
- Economics courses selected from: Ec 340, Ec 440, Ec 441, Ec 442, Ec 443, Ec 445, Ec 446, Ec 447, Ec 448, Ec 450, or with approval, other upper division economic courses related to international studies.

International Business (12 credits)

Selected from:

- Fin 456 International Financial Management
- Mktg 376 International Business
- Mktg 446 International Management
- Mktg 466 Principles of International Marketing
- or other courses approved by advisor.

SOCIAL INNOVATION AND SOCIAL ENTREPRENEURSHIP CERTIFICATE

The Social Innovation and Social Entrepreneurship Certificate program is open to undergraduate and graduate students and equips students with the latest tools and approaches to tackle the world's biggest challenges. Together, the four courses in this majority-online program will enable students to deeply examine a social or environmental problem of their choice and design a new business, nonprofit organization, or internal program to address that problem.

Throughout the program, students will be mentored by experienced PSU faculty, learn from practicing social entrepreneurs, work with peer mentors, and interact with leading experts. Courses can be taken in any sequence, with permission. With a focus on leadership and purpose, Impact Entrepreneurs guides students through a transformational learning experience.

CERTIFICATE REQUIREMENTS

Graduate Certificate Requirements

Mgmt 521S/Mgmt 521S	Design Thinking for Social Innovation	4
Mgmt 522S	Money Matters for Social Innovation	4
Mgmt 523S	Storytelling and Impact Measurement for Social Innovation	4
Mgmt 509S	Social Innovation Practicum	4
Subtotal: 16		

Undergraduate Certificate Requirements

Mgmt 421	Design Thinking for Social Innovation	4
Mgmt 422	Money Matters for Social Innovation	4
Mgmt 423	Storytelling and Impact Measurement for Social Innovation	4
Mgmt 409	Social Innovation Practicum	4
Subtotal: 16		

Graduate programs

The School of Business offers seven programs leading to master's degrees. The School also participates in the System Science Doctoral Program.

ADMISSIONS AND APPLICATION REQUIREMENTS

Application requirements vary by program. See the website for application criteria.

The entire application process can take up to 8 weeks for domestic students and 12 week for international students (due to foreign transcript evaluation), so it is best to apply early, taking care to ensure everything is completed properly. An admissions coordinator will contact you with a confirmation once your application is received at the Graduate Business Programs Office.

Fall Admission

Application and all supporting documents are due by **May 1** for the following graduate business programs and certificate:

- The Portland MBA
- The Healthcare MBA
- Joint JD/MBA
- Master of Real Estate Development
- MS in Finance
- MS in Global Supply Chain Management

Application and all supporting documents are due by **September 15** for the following graduate certificates:

- Business Intelligence and Analytics
- Global Supply Chain Management
- Social Innovation
- Athletic & Outdoor Industry

Winter Admission

Application and all supporting documents are due by **November 15** for the following graduate certificates:

- Business Intelligence and Analytics
- Social Innovation

Spring Admission

Application and all supporting documents are due by **January 15** for the following graduate business programs and certificates:

- Master of Real Estate Development
- MS in Global Supply Chain Management
- Social Innovation

Summer Admission

Application and all supporting documents are due by **May 1** for the following graduate business programs:

- Master of Taxation

Application and all supporting documents are due by **June 15** for the following graduate certificates:

- Social Innovation

DEGREE PREREQUISITE REQUIREMENTS

Master of Finance (MSF)

All applicants need to complete the following introductory coursework prior to admission: Financial Accounting, Managerial Accounting and Statistics. Applicants are also expected to be proficient in computer applications and spreadsheet skills.

See website for details.

Master of Taxation (MT)

In addition to meeting the requirements for PSU and the School of Business, program applicants should meet one of the following four criteria:

- Be a current undergraduate accounting major with a 3.0 or higher GPA in upper division accounting courses and completing their degree matriculation into the MT
- Hold a bachelor's degree in accounting and employed in a tax-related field
- Hold a bachelor's degree outside of accounting with a 3.0 or higher GPA in a specified set of upper division accounting courses or

- Hold a J.D. degree.

See website for details.

MASTER OF BUSINESS ADMINISTRATION (MBA)

The MBA is an integrated graduate program focused on leadership, innovation and sustainability. Students master essential technical skills through the Value Chain of Business courses and gain in-depth understanding of the global context of business in the Foundations of Competitiveness courses. In addition, students take a series of Applied Skills and Leadership courses that are integrated based on a set of managerial competencies, skills and perspectives. A highlight of the MBA program is the International Experience, which requires that all MBA students participate in either a 10-14 day study abroad program or a Portland Metro-based international business experience during their MBA experience.

The MBA is designed to accommodate students with business and non-business undergraduate degrees and is best suited for those who have gained at least two years of industry experience prior to their admission date.

Students may elect to complete the MBA program in either the full-time or part-time evening format. Students are expected to progress through the program with their assigned cohort and follow the schedule of core courses. Both full-time and part-time students may complete optional certificates or other elective courses which are primarily offered during the evenings or online.

The goal of the MBA program is to develop highly effective managers and leaders. Students develop expertise in the technical areas of business, managerial competencies, and the ability to integrate technical expertise with managerial competencies to become effective leaders in organizations. This program seeks to produce future business leaders with an innovative spirit and a commitment to social, economic and environmental stewardship. The core coursework in the MBA program is grouped into three segments for a total of 62 credits: Foundations of Competitiveness, The Value Chain of Business, Applied Skills and Leadership, along with an International Experience.

FOUNDATIONS OF COMPETITIVENESS (16 CREDITS)

These courses provide the student with a deepened understanding of the global and competitive challenges facing businesses today.

Courses

Mktg 513	Pioneering Innovation	4
Fin 515	Economics and Sustainability of the Firm	2
Fin 516	Managerial Macroeconomics	2
ISQA 519	Managerial Analytics	4
Mgmt 511	Foundations of Strategy	2
Mgmt 514	Integrated Strategy	2

THE VALUE CHAIN OF BUSINESS (24 CREDITS)

The value chain segment builds an integrated foundation of coursework and provides in-depth knowledge in applied skills related to accounting, finance, management, marketing, and operations.

Courses

Actg 511	Financial Reporting	4
Actg 513	Managerial Accounting and Control	4
Mktg 512	Marketing Strategy	4
Mgmt 512	Organizational Management	4
Fin 513	Financial Management	4
ISQA 511	Sustainable Operations Management	4

APPLIED SKILLS & LEADERSHIP (22 CREDITS)

In the MBA program, student's leadership skills are assessed and developed through integrated leadership courses, continuous attention to managerial competencies, skills and perspectives, and one-on-one leadership coaching. Students apply the technical business skills and leadership competencies gained through the MBA program in an intensive immersion experience midway through the program, and in a team-based consulting project with a regional organization.

Courses

BA 521	Leadership Development and Assessment	2
BA 522	Communications for Leaders	1
BA 523	Executive Perspectives on Leadership	1
BA 524	Leadership Immersion	1
BA 525	Capstone Consulting Project	4
BA 526	MBA International Experience or	4

BA 527	MBA Domestic Business Experience	4
BA 528	MBA Culture Module	1
BA 529	Building Effective Teams	1
BA 530	Thought Leadership	1
Fin 517	Corporate Governance	2
Mgmt 516	Project Management	2
Mgmt 517	Negotiations for Managers	2

CERTIFICATES: OPTIONAL

See the MBA website for certificate options.

WAIVER POLICY

Students may be eligible for waiver of some required courses in the MBA program. A waiver is based upon the student holding an undergraduate degree (earned within the previous seven years) or an active license in the specific discipline for which the waiver is sought. Specifically, the following courses may be considered for waiver: Actg 511, Actg 513, Fin 515, Fin 516, Fin 517, ISQA 511 and Mgmt 512. A student can waive a maximum of 13 credit hours from the courses above only, thus reducing the required number of hours in the degree program. Students must apply for waivers during the summer prior to entering the program.

FINANCE OPTION

The Finance option offered in conjunction with the MBA creates an opportunity to develop a concentrated skill set within the finance area. This option provides students the skills to understand complex financial issues as well as experience in the application of financial tools that facilitate problem solving. Students must choose electives from the approved Finance option elective list.

IMMERSIVE EXPERIENCE

A highlight of our program is the Immersive Experience (IE) required for all MBA students. The primary goal of the IE is to provide a first-hand experience of the opportunities and challenges of competing in a global marketplace. The IE is also designed to enhance cultural knowledge and enhance students' global mindsets in order to gain a global perspective. The IE requires either a 10- to 14-day immersion in a foreign country (BA 526) or a locally-based domestic business experience (BA 527) which may be available to students who petition for an approved exception to the international travel requirement. Students must complete at least their first year of the MBA core curriculum before participating in the IE or the domestic business experience.

Shared Master's Credits

Admitted students in good standing may apply to use shared master's credits between the MBA and MS GSCM degrees. For details contact the Academic Advising Team.

HEALTHCARE MBA

The Healthcare MBA is a joint degree program offered by Portland State University's School of Business and the Oregon Health & Science University's School of Medicine. The Healthcare MBA is offered in a part-time, three-year format. Courses are online with two required residencies per term. Students in this program learn the knowledge, skills, and tools to function as effective managers and leaders in healthcare organizations. Specifically, graduates will be able to:

- Understand the complex healthcare system across critical domains and scales that influence healthcare policy and operations and apply this understanding to their own professional situation and organization.
- Analyze complex and ambiguous issues in healthcare and reason toward solutions that are innovative in healthcare contexts.
- Accurately read and regulate one's own strengths, weaknesses and emotions; demonstrate awareness and skill in collaborating with others who have different reactions and perspectives.
- Communicate in a manner that appropriately and thoughtfully informs, influences and inspires diverse stakeholders.

The curriculum consists of 72 credits of courses and is arranged in thematic categories: Healthcare System, Leadership, Operations and Quality, Business and Financial Planning, and Application Projects and Capstone. Courses balance theory and knowledge with practical application. Healthcare is thoroughly integrated throughout the curriculum; however, where appropriate, attention will be called to best practices in other industries that could be beneficial in healthcare. Faculty are a blend of OHSU and PSU faculty and healthcare practitioners. The student cohort is comprised of individuals in roles across the healthcare spectrum, including those serving in direct patient care capacities as well as those in administration; students represent large and small healthcare systems, clinics, government, biotech industry, pharmaceuticals, research, medical device companies, and many more.

FINANCE M.S. (MSF)

The Master of Science in Finance (MSF) is an accelerated program that provides students the skills and knowledge required to start or advance a career in finance. The curriculum is designed to develop forward-thinking professionals with sharp analytic minds, effective communication skills, and the necessary vision to apply financial analysis skills in a wide variety of business situations. Business and non-business students will benefit from the depth and integration of the curriculum.

Students may take courses on a full-time or part-time schedule. Full-time students can complete the program in one year and part-time students can complete it in two years. Most classes are in the evening.

REQUIREMENTS

Successful completion of the MSF requires 49 credits.

Fin 516	Managerial Macroeconomics	2
Fin 531	Financial Institutions	2
Fin 535	Financial Information Systems	2
Fin 545	Hedging and Risk Management	4
Fin 551	Financial Management for Financial Analysts	4
Fin 552	Investments	4
Fin 555	Applied Econometrics for Financial Analysis	4
Fin 565	Corporate Financial Strategies	4
Fin 525	Finance Capstone Project	2
Actg 550	Advanced Financial Reporting	4
Actg 553	Financial Statement Analysis	4
Actg 560	Professional Ethics and the Public Interest	2
BA 522	Communications for Leaders	1
ISQA 519	Managerial Analytics	4
Mgmt 511	Foundations of Strategy	2
Electives		4*

Total: 49

Waiver Policy

Students may be eligible for waiver of required courses in the MSF program. A waiver is based upon the student holding an undergraduate degree (earned within the previous seven years) in the specific discipline for which the waiver is sought. Specifically, the following courses may be considered for waiver: Fin 516, Actg 550 and BA 522. A student can waive a maximum of 4 credit hours, thus reducing the required number of hours in the degree program. Students must apply for waivers.

*See MSF program website for a list of approved electives. Other courses can qualify as elective credit if pre-approved by the Academic Director.

GLOBAL SUPPLY CHAIN MANAGEMENT M.S. (MS GSCM)

The MS GSCM is a 52-credit-hour program that can be completed in two years on a part time basis. This is an online degree that will start with a residency weekend orientation program. The program objectives are to prepare

students to design and manage an effective and efficient global supply chain; understand and apply supply chain analytics; conduct demand forecasting, aggregate planning, and sales and operations planning for a supply chain; apply project management techniques in a supply chain context; understand the implications of supply chain initiatives in terms of key financial performance metrics; utilize sustainability-based initiatives and/or circular economy model, including closed-loop processes, to lessen the social and environmental impact of supply chains; assess fundamental dimensions of supply chain strategy, social and environmental responsibility, innovation, transformation and organizational leadership.

The end goal of the MS GSCM is to prepare global leaders in developing strategies that support markets and innovation in a sustainable and efficient manner.

REQUIREMENTS

The MS GSCM degree will have a total of 52 credit hours and be completed in two years on a part-time basis.

Year 1

GSCM 511	Principles of Strategic Global Sourcing	4
GSCM 512	Global Managerial and Cost Accounting	4
GSCM 513	Principles of Strategic Global Logistics	4
GSCM 522	Global Leadership and Ethics in Supply Chain Management	2
GSCM 516	Global Supply Chain Forecasting and Production Planning	4
GSCM 520	Global Supply Chain Strategy	2

Year 2

GSCM 515	Global Case Studies in Supply Chain Management	4
GSCM 517	Supply Chain International Field Study	4
GSCM 518	Global Supply Chain Project Management	4
GSCM 519	Global Supply Chain Negotiations	4
GSCM 514	Reverse Logistics and Closed Loop Supply Chain	4
GSCM 521	Global Information, Systems and Data Analytics	4
GSCM 525	Supply Chain Capstone Consulting Experience	4
	One 4-credit GSCM elective	4

Subtotal: 52

Shared Master's Credits

Admitted students in good standing may apply to use shared master's credits between the MS GSCM and MBA degrees. For details contact the Academic Advising Team.

MASTER OF INTERNATIONAL MANAGEMENT (MIM)

Effective Fall 2018: The Master of International Management (MIM) degree is no longer accepting applications.

The Master of International Management (MIM) degree is for those who want the skills to be successful in the fast-paced global business environment and have a particular interest in working in the Asia Pacific region. The MIM program provides students with international as well as general business skills, proficiency in a foreign language, and a deep knowledge of political and economic environments in which global business leaders work, all gained while working with a culturally diverse group of students from around the world. The MIM degree is also suitable for those who wish to transition from liberal arts and social science backgrounds to careers in international business.

The 60-credit MIM program is offered in either a 12-month, full-time intensive format or a 21-month format with time to complete a Graduate Certificate. The MIM degree focuses on Asian business and includes a three-week field-study trip to Asia and an three credit Special Projects capstone project as integral parts of the program. The MIM program strives to create a strong cross-cultural learning community through a cohort structure that helps students to build team skills. Students are expected to progress through the program with their assigned cohort and follow the schedule of classes. Students will have to take some coursework during the evenings or weekends. Students are admitted in fall term only. There is no admission in the winter, spring, or summer terms.

Certificate (optional degree enhancement)

To meet the growing corporate demand for specialized skills, the MIM Program provides options for students to enroll in certificate programs that fit with their future career goals. Students can acquire in-depth knowledge in key management areas. See the website for descriptions of certificates offered to graduate business students.

MIM Requirements

Transfer Credits and Course Waivers

Waiver Policy

Students may be eligible for waiver of some required courses in the MIM program. A waiver is based upon the student holding an undergraduate degree (earned within the

previous seven years) in the specific discipline for which the waiver is sought. For some classes a waiver exam may be available. Specifically, the following courses may be considered for waiver: MIM 505, MIM 513, MIM 515, MIM 516, MIM 517, MIM 558, MIM 564, MIM 574. A student can waive a maximum of 7 credit hours from the courses above only, thus reducing the required number of hours in the degree program. Students must apply for waivers.

Language Requirement

The language component of the MIM is designed to prepare participants for the international business environment of Asia. The goal is to create a comfort level in the target language, Chinese or Japanese, such that the participant understands business etiquette and can function socially. The primary skills emphasized are listening, followed by speaking, reading, and writing. The content of the language focuses on business and social situations, concentrating on relevant vocabulary. Once a student selects a target language, he or she is not allowed to change to the other language.

Field Study in Asia

Students travel to Asia to visit companies, meet with international business executives, and learn more about Asian cultures. This trip allows students the opportunity to immerse themselves in the culture and lifestyle of different Asian countries.

REQUIREMENTS

Core Courses (50 credits)

MIM 506	International Business Research Project	3
MIM 512	Global Leadership and Ethics	2
MIM 513	Pacific Rim Economies, Trade, and Financial Markets	3
MIM 515	Global Contemporary Marketing	4
MIM 516	Contemporary Pacific Rim and World Affairs	4
MIM 517	Accounting for Global Enterprises	4
MIM 522	Global Communications	2
MIM 527	Intercultural Competence and Communications I	1
MIM 528	Intercultural Competence and Communications II	1
MIM 535	Global Marketing Research and Innovation	3
MIM 558	Global Comparative Operations Management	4
MIM 564	Global Human Resource Management	4
MIM 574	International Corporate Finance and Investment	4

MIM 577	International Business Negotiations	3
MIM 579	Asia Field Study	4
MIM 589	Global Business Strategy	4

Language (6 credits)

MIM 505	Foreign Language	6
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Elective (4 credits)**Optional Graduate Certificates (16-21 credits)**

See website for course descriptions of certificate coursework.

REAL ESTATE DEVELOPMENT MASTER (MRED)

The Master of Real Estate Development (MRED) is a professional degree, training students in the areas of real estate development within the context provided by principles of sustainability, social equity, and community-based development. By its nature, real estate education is multi-disciplinary, involving finance, urban planning, architecture, law, engineering, design, appraisal, and other disciplines. To deliver this education, the MRED degree is a joint degree of the School of Business Administration and the Toulon School of Urban Studies and Planning.

The objective for this program is to provide a unique and exceptional graduate degree that will enable students to assist in the development, management and financing of property with an understanding of the role that such development plays in the context of broader community concerns and history, and in the context of the surrounding neighborhood and city. Students will work closely with high-level industry professionals in their classes and workshops.

The MRED degree is designed to accommodate students with a wide variety of undergraduate degrees and is best suited for students who have gained at least two years of industry experience prior to their admission date. The MRED program is designed to be completed in 12 months on a full-time basis or 24 months on a part-time basis. Full-time students are admitted for fall term only. Part-time students are admitted in fall or spring only.

REQUIREMENTS

Students will develop their skills in three areas: sustainable urban development; real estate finance, markets and law; and project development, leading to the Real Estate Development Workshop culminating experience.

Sustainable Urban Development

USP 527	Downtown Revitalization	3
USP 569	Sustainable Cities and Regions	4
USP 596	Affordable Housing Finance	3
USP 612	Community, Planning, and Ethics	4

Finance, Markets, and Law

RE 521	Real Estate Finance I	4
RE 522	Real Estate Finance II	4
RE 573/USP 573	Housing Economics	4
RE 538S/USP 538	Real Estate Law I	3

Project Development

USP 523	Real Estate Development I	4
USP 546	Real Estate Development II	4
USP 624	Development Project Design	3
RE 531	Executive Perspectives on Real Estate	1
RE 562	Real Estate Development Workshop	4

Electives 10

Subtotal: 55

REAL ESTATE DEVELOPMENT WORKSHOP

The culminating experience of the MRED is RE 562 Real Estate Development Workshop. Students in that class form a team that produces a development proposal for a multi-block site in a major city, advised by local industry professionals. Each team will produce a professional report and present their findings before an audience of real estate professionals.

MASTER OF TAXATION (MT)

The Master of Taxation (MT) provides the specialized tax knowledge and skills required to start or advance a career as a tax professional. The foundation of the curriculum is the immersion of students in primary source authority, such as the Internal Revenue Code, Treasury regulations, and judicial and administrative authority. Skill development is focused on strengthening analytical, research, and written and oral communication skills. The program is designed to develop the tax expertise of a wide range of students, including current undergraduate accounting majors with a 3.0 or higher GPA in their upper division accounting courses, bachelor degree holders outside of accounting that complete a specified set of upper division accounting courses with a 3.0 or higher GPA, bachelor degree holders in accounting currently employed in a tax-related field, and holders of a J.D.

The MT is a 45-credit-hour program, with cohorts starting in Summer term, which can be completed over 12 months (full-time) or 24 months (part-time). The program is a hybrid of in-class and online content: each course begins with a live on-campus class on a weekend at the start of each term and continues online thereafter, with both synchronous and asynchronous interactions among faculty

and students. Faculty for the MT program are drawn from Portland State University and both local and nationally recognized professionals with expertise in specialized areas of taxation.

REQUIRED TAXATION CORE COURSES*

The MT program requires a minimum of 45 credits.

MTax 525	Tax Research and Writing	4
MTax 526	Tax Accounting Methods and Periods	4
MTax 527	Corporate Taxation I	4
MTax 528	Corporate Taxation II	4
MTax 530	Taxation of Property Transactions	2
MTax 531	Pass-through Entities I	4
MTax 532	Pass-through Entities II	2
MTax 533	Financial Accounting for Income Taxes	4
MTax 537	Tax Case Capstone	3
MTax 544	Professional Practices Seminar	2

Subtotal: 33 Credits

TAX ELECTIVES*

Students will complete three courses from the following list:

MTax 535	State and Local Taxation	4
MTax 536	International Taxation	4
MTax 539	Taxation of Estates, Gifts, and Trusts	4
MTax 540	Practicum/Internship	4
Actg 553	Financial Statement Analysis	4

Subtotal: 12 Credits

*During the 2018-19 academic year, some of the above course names will change. Please refer to the PSU's Banweb for information on courses offered during a particular term.

Graduate Certificates

ATHLETIC & OUTDOOR INDUSTRY CERTIFICATE

The Athletic & Outdoor Industry Graduate Certificate provides students with a tool kit and an understanding of the culture, process, terminology and what it takes to succeed in a hyper competitive industry. The A&O Industry Graduate Certificate will help students prepare for

careers in the A&O industry or help them advance their career by providing an overview of a go-to-market strategy, and help them expand their network of industry contacts.

The program differentiates itself with strong industry engagement. Industry professionals actively participate in the classroom as teachers, guest speakers and mentors offering tangible examples and insights.

The A&O certificate was designed as a complement to a School of Business graduate program including the MBA, MSGSCM, or MSF. It can be taken as a stand-alone; priority is given to students enrolled in School of Business graduate programs.

REQUIREMENTS

Industry or related experience or education is strongly preferred.

Courses

Mktg 514	Selling and Sales Leadership	4
Mktg 534	Advertising and Brand Management	4
Mktg 536/Mktg 536S	Athletic and Outdoor Marketing	4
Mktg 537/Mktg 537S	Product Management in the Athletic and Outdoor Industry	4

Electives*

Choose one course from the following:

GSCM 511	Principles of Strategic Global Sourcing	4
GSCM 516	Global Supply Chain Forecasting and Production Planning	4
ISQA 511	Sustainable Operations Management	4
ISQA 519	Managerial Analytics	4
Mktg 513	Pioneering Innovation	4

Enrollment in electives is based on space and availability.

*MBA students will need to choose an elective class that is not currently required as part of the MBA program. Specifically they will choose from Forecasting and Production Planning (GSCM 516) or Principals of Global Sourcing (GSCM 511).

BUSINESS INTELLIGENCE AND ANALYTICS GRADUATE CERTIFICATE

The Certificate in Business Intelligence and Analytics (Grad Cert BIA) is designed to meet the growing demand for advanced data analysis and communication skills. These skills will permit graduates to optimize the interconnection of devices, analyze large quantities of data,

and harness information into useful decision-making models.

This certificate is intended for those who want to optimize their quantitative skills and develop the competence required to communicate data driven decisions within their organizations. The Grad Cert BIA graduate will be able to analyze ever growing quantities of data and contextualize this information through four areas of study; engineering management, systems science, mathematical statistics, and business communications.

Courses

ETM 538	Decision Support Systems: Data Warehousing	4
ETM 540	Operations Research	4
Stat 564	Applied Regression Analysis	3
SySc 531	Data Mining with Information Theory	4
ISQA 520	Introduction to Business Intelligence and Analytics	4
ISQA 521	Analytics Communication and Management	2

Subtotal: 21

ETM 538, ETM 540, Stat 564, and SySc 531 may be taken in any order but are prerequisites for ISQA 520; ISQA 520 is a corequisite to ISQA 521.

GLOBAL SUPPLY CHAIN MANAGEMENT GRADUATE CERTIFICATE

The GSCM certificate is designed as a standalone certificate for working professionals with significant work experience in business operations to gain an academic credential for advancement in their career. The certificate is also available to MBA students.

REQUIREMENTS

Courses

Choose 4 of the following 6 courses:

GSCM 511	Principles of Strategic Global Sourcing	4
GSCM 513	Principles of Strategic Global Logistics	4
GSCM 516	Global Supply Chain Forecasting and Production Planning	4
GSCM 517	Supply Chain International Field Study	4
GSCM 521	Global Information, Systems and Data Analytics	4
GSCM 5XX*		4

Subtotal: 16

*Other GSCM course approved by the Academic Director.

HUMAN RESOURCE ANALYTICS (HRA) GRADUATE CERTIFICATE

A growing number of organizations use human resource analytics (HRA) to inform and support strategy and to maintain a competitive advantage. Yet, a talent shortage has emerged, leaving many organizations searching for individuals who understand how to apply and implement HR analytics. The objective of the HRA Graduate Certificate (HRAGC) is to address this talent shortage by developing knowledge and skills in HR analytics. Through hands-on application of analytics, using tools such as R, HR professionals and graduate students with an interest in HR will learn how to answer HR questions using data and to grow an organization's HR analytics capabilities. By the end of the certificate, students will be able to choose and implement appropriate data-analytic tools; follow ethical and legal standards; and improve critical organizational functions, such as workforce planning, staffing, learning and development performance management, and retention.

CERTIFICATE REQUIREMENTS

The GCHRA is an 18 credit program.

Course of study

Mgmt 541	Introduction to HR Analytics	4
Mgmt 540	HR Analytics Rapid Evidence Assessments	2
Mgmt 542	HR Analytics Tools and Applications	4
Mgmt 543	HR Metrics and Analytics in Daily Operations	2
Mgmt 552	HR Analytics Capstone	4
Mgmt 553	HR Data Visualization and Storytelling	2

Subtotal: 18

Total Credit Hours: 18

REAL ESTATE DEVELOPMENT CERTIFICATE

Administered by the College of Urban and Public Affairs (p. 335) (CUPA) A concentration centering on issues of property development, finance and real estate, and housing economics.

SOCIAL INNOVATION AND SOCIAL ENTREPRENEURSHIP CERTIFICATE

The Social Innovation and Social Entrepreneurship Certificate program is open to undergraduate and graduate students and equips students with the latest tools and approaches to tackle the world's biggest challenges. Together, the four courses in this majority-online program will enable students to deeply examine a social or

environmental problem of their choice and design a new business, nonprofit organization, or internal program to address that problem.

Throughout the program, students will be mentored by experienced PSU faculty, learn from practicing social entrepreneurs, work with peer mentors, and interact with leading experts. Courses can be taken in any sequence, with permission. With a focus on leadership and purpose, Impact Entrepreneurs guides students through a transformational learning experience.

CERTIFICATE REQUIREMENTS

Graduate Certificate Requirements

Mgmt 521S/Mgmt 521S	Design Thinking for Social Innovation	4
Mgmt 522S	Money Matters for Social Innovation	4
Mgmt 523S	Storytelling and Impact Measurement for Social Innovation	4
Mgmt 509S	Social Innovation Practicum	4
Subtotal: 16		

Undergraduate Certificate Requirements

Mgmt 421	Design Thinking for Social Innovation	4
Mgmt 422	Money Matters for Social Innovation	4
Mgmt 423	Storytelling and Impact Measurement for Social Innovation	4
Mgmt 409	Social Innovation Practicum	4
Subtotal: 16		

TAXATION GRADUATE CERTIFICATE

The Graduate Certificate in Taxation (GCT) allows accounting majors, and current practitioners, the opportunity to further their tax education. This program is aimed at recent accounting graduates seeking a limited number of graduate tax classes to prepare for entry into tax careers as well as practicing attorneys, accountants and other tax professionals seeking expertise in selected areas of taxation. Tax practitioners (including accountants and attorneys) often focus their practice to specific areas of taxation. The GCT allows a focused approach whereby only certain areas of taxation are targeted for study, allowing for an efficient use of time and financial resources in meeting needed educational requirements.

The GCT places emphasis on a thorough grounding in tax research and writing, and then allows students to further design a specific course of study focusing on their area of interest (e.g. corporations, state and local tax, international tax, trust, estate and gift, etc.).

REQUIREMENTS

The GCT is a 20 credit program; a 4-credit required course and 16 credits of elective courses.

Required

MTax 525	Tax Research and Writing	4
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Electives (select 16 credits)

MTax 526	Tax Accounting Methods and Periods	4
MTax 527	Corporate Taxation I	4
MTax 528	Corporate Taxation II	4
MTax 530	Taxation of Property Transactions	2
MTax 531	Pass-through Entities I	4
MTax 532	Pass-through Entities II	2
MTax 533	Financial Accounting for Income Taxes	4
MTax 535	State and Local Taxation	4
MTax 536	International Taxation	4
MTax 539	Taxation of Estates, Gifts, and Trusts	4
Actg 553	Financial Statement Analysis	4

GRADUATE SCHOOL OF EDUCATION

Marvin Lynn, Dean
Tina Anctil, Associate Dean for Academic Affairs
1900 Fourth Avenue Building, Suite 200, 503-725-4619
www.pdx.edu/education

Graduate Programs

- Initial and Continuing Licenses
- Early Childhood Education
- Elementary Education
- Middle Level Education
- High School Education—In cooperation with appropriate departments
- Specialist Programs—Administrative Studies (P-12); Postsecondary, Adult and Continuing Education; Library Media; Counselor Education (options: School, Clinical Mental Health, Rehabilitation, Marital, Couple and Family); Literacy Education; Special Education, ESOL/Bilingual Education
- M.Ed., M.A., M.S.—Education
- M.A.T., M.S.T.—In cooperation with appropriate departments
- Ed.D.—Educational Leadership (Options: Administration; Curriculum and Instruction; Postsecondary Education; Special Education)

The Graduate School of Education (GSE) has a wide range of comprehensive programs leading to degrees and licensure. It is authorized by the Oregon Teacher Standards and Practices Commission to recommend teacher education and specialist candidates for both initial licenses and added endorsements.

GSE programs are fully accredited by the Council for the Accreditation of Educator Preparation and by the Oregon Teacher Standards and Practices Commission. Counselor Education programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs and the Council on Rehabilitation Education. Although licensure requirements are incorporated into degree programs, changes by the Oregon Teacher Standards and Practices Commission during the life of this catalog may alter the requirements. Applicants for licenses must meet the Commission requirements in force at the time of the license application.†

† Because licensure rules are controlled by the Oregon Teacher Standards and Practices Commission, it is possible that licensure requirements may change. All persons expecting to be recommended for initial (preliminary) or continuing (professional) licenses should consult with an

adviser or contact the Graduate School of Education Licensure Office, 503-725-4758.

The vision of the school is to be nationally recognized for working collaboratively with the surrounding communities, Tribal Nations, and our students to advance equity and excellence in education and counseling through our engaged research activities and our community-centered and culturally responsive professional preparation programs with innovative model for preparing diverse professionals who are critically engaged global citizens. The GSE welcomes all students to join in helping us reach our mission: “to prepare students to advance life-long learning in diverse learning environments, including school, post-secondary institutions, community organizations, and social service and health agencies.” The faculty and staff are committed to the following guiding principles as we strive to fulfill our mission:

1. We create and sustain educational environments that serve all students and address diverse needs.
2. We encourage and model exemplary programs and practices across the life span.
3. We build our programs on the human and cultural richness of the University’s urban setting.
4. We model professionalism and develop collaborative efforts that support our mission.
5. We challenge assumptions about our practice and accept the risks inherent in following our convictions.
6. We develop our programs to promote social justice, especially for groups that have been historically disenfranchised.
7. We strive to understand the relationships among culture, curriculum, and practice and the long-term implications for ecological sustainability.
8. We model thoughtful inquiry as the basis for sound decision-making.

Goals and Purposes

We prepare our candidates to provide leadership in:

Diversity and Inclusiveness-Advocacy for Fairness and Respect

- to work in diverse settings
- to promote inclusive and therapeutic environments

Research-Based Practices and Professional Standards-Professionalism

- to critically analyze and implement research-based practices

- to demonstrate appropriate professional knowledge, skills, and dispositions

Impact on Learning and Development-Commitment to Learning

- to ensure all learners and clients succeed
- to use technology to enhance learning
- to influence policy and provide leadership for organizations

Evidence Informed Decision Making-Reflection

- to use evidence to solve problems of practice and make educational and therapeutic decisions

Undergraduate programs

Undergraduate students interested in pursuing a career in teaching should refer to the “Teacher Preparation (p. 283)” section in this catalog for information regarding recommended preparatory programs for elementary and secondary teachers.

SPECIAL EDUCATION B.A./B.S.

The BA/BS in Special Education is pending approval from the Oregon Higher Education Coordinating Commission.

In addition to meeting the general University requirements, the student must complete a minimum of 75 credits in the following special education courses.

LOWER-DIVISION PROGRAM REQUIREMENTS

These requirements are completed in the Freshman or Sophomore years (Yr 1 & 2).

Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4
SpEd 418	Survey of Exceptional Learners	3
Subtotal: 11		

UPPER-DIVISION PROGRAM REQUIREMENTS

These requirements are completed in Junior and Senior years (Yr 3 & 4).

SpEd 411	Foundations of Special Education	3
SpEd 415	Classroom Assessment, Instruction, and Behavior Management (Elementary)	4
SpEd 430	Families and Advocacy	3

SpEd 409	Professional Practices Seminar 1	3
SpEd 437	Reading Assessment and Instruction - Elementary	4
SpEd 438	Reading Assessment and Instruction - Secondary	4
SpEd 410	Inclusive Practices	2
SpEd 414	Legal and Ethical Foundations of Special Education	3
SpEd 412	Diagnostic Assessment	4
SpEd 448	Positive Behavior Support in the Classroom	3
SpEd 409	Professional Introduction to the School Year	3
SpEd 433	Math Assessment and Instruction	3
SpEd 422	Comprehensive Individualized Assessment and Curriculum I	3
SpEd 409	Professional Practices Seminar 2	3
SpEd 423	Comprehensive Individualized Assessment and Curriculum II	3
SpEd 425	Student Teaching	12
SpEd 426	IEP and Collaborative Teaming	4
Subtotal: 64		

Transfer Policy for the Special Education Major Requirements in the BA/BS in Special Education

Students must complete a minimum 64 Special Education major requirements at PSU. These are the Special Education courses completed during the junior and senior years.

Total Credit Hours: 75

Graduate programs

The Graduate School of Education offers a Doctor of Education, Master of Education, Master of Arts, and Master of Science degree in education.

ADMISSION REQUIREMENTS

To be admitted to a graduate program in professional education, the applicant must first satisfy minimum University requirements (p. 32). The applicant must also meet the admission requirements of specific degree, license, or specialist programs that the school is authorized to offer. Detailed information regarding admission requirements for the various graduate programs is available from the Graduate School of Education and at www.pdx.edu/education.

DEGREE REQUIREMENTS

See University graduate degree requirements (p. 50). Specific Graduate School of Education requirements for degree, educational specialists, or license candidates are listed below. Upon successful completion of all University and Graduate School of Education requirements, the

candidate will be awarded the appropriate degree and be recommended, upon request, for the appropriate license.

EDUCATION M.ED.

The M.Ed. is earned by students who have completed PSU's Graduate Teacher Education Program (p. 139) (GTEP) or Secondary Dual Educator Program (p. 140) (SDEP). Graduate level students in the Bilingual Teacher Pathway (p. 141) (BTP) Program may earn the M.Ed. with the completion of a research course to be approved by their advisor as equivalent to the former course CI 563: Teacher as Researcher. ITEP students may earn a M.Ed. with completion of coursework approved by their advisor.

EDUCATION M.A./M.S.

The Curriculum & Instruction Master's Degree Program offers an innovative learning environment that engages and empowers individuals to develop the knowledge, skills, and dispositions to improve their professional practice and to become leaders for change and social justice in their learning communities.

OPTION I: EDUCATIONAL LEADERSHIP AND POLICY

The Department of Educational Leadership and Policy (ELP) offers a department-wide Master of Arts and Master of Science degree with specializations in: Postsecondary, Adult, and Continuing Education (PACE); Leadership in Sustainability Education (LSE); and Educational Administration, Initial Administrator License/ Preliminary Administrative License (MS+IAL).

The purpose of these programs is to inspire and guide educational leaders in creating a socially just world. Through teaching, research and advocacy, the ELP department inspires and guides educational leaders to create collaborative, sustainable practices that advance equity and social justice in our communities.

All students admitted to the 45-credit master's program must complete four required courses from the Professional Studies Core. Within each specialization students may elect to develop, with their advisers, a general program or theme (special emphasis or focus).

Core Courses (16 credits)

ELP 511	Principles of Educational Research and Data Analysis I	4
ELP 520	Developmental Perspectives on Adult Learning	4
ELP 568	Educational Organization and Administration And Either	4
ELP 551	Social Foundations of Education or	4
ELP 554	Philosophy of Education	4

In consultation with the adviser, students must complete courses that support their area of specialization and select one of two options to complete the requirements for the master's degree (a thesis or a comprehensive examination). The majority of students complete the comprehensive exam which involves a professionally grounded theory-to-practice project formally contextualized in the research literature. The thesis is likely to significantly extend a student's time to completion. Courses numbered 808 do not count toward degree completion. Further information about each of these areas of specialization may be obtained from the Graduate School of Education. For more information please visit our web site at www.pdx.edu/elp/.

Information about specific specializations and licensure programs can also be found on our website.

MA/MS Postsecondary Adult and Continuing Education

MA/MS Leadership for Sustainability Education

Educational Administration:

- Initial Administrative Licensure / Preliminary Administrative Licensure
- MA/MS+Initial Administrative Licensure / Preliminary Administrative Licensure
- Continuing Administrative Licensure / Professional Administrative Licensure

Graduate Certificates

- Teaching Adult Learners (p. 137)
- Student Affairs in Higher Education (p. 137)
- Service-Learning and Community-Based Learning in Higher Education (p. 137)
- Training and Development (p. 138)

OPTION II: CURRICULUM AND INSTRUCTION

The Graduate School of Education's Curriculum and Instruction Master's Degree Program is designed for professionals who want to pursue advanced studies in teacher leadership, educational theories and research, curriculum design, and instructional practices. Courses are intended to enhance classroom pedagogy and learning outcomes while providing opportunities for career development. The program electives are flexible and can be used toward endorsements (e.g. ESOL, Reading), specializations (Math), and certificates of completion (e.g. Teacher leadership, ESOL, Autism spectrum disorder).

Requirements for the degree are:

1. A program of study consisting of 45 graduate-level credits approved by the student's graduate adviser and the department chair, to include:

- a. A minimum of 24 core credits in curriculum and instruction.
 - b. A core of studies encompassing preparation in the areas of teaching and learning, curriculum, research and evaluation, human relations, and multicultural education. The precise nature of this core of studies is specified by the department. Degree plans are written in cooperation with an assigned adviser.
 - c. All courses must be 500 level or above.
 - d. No more than 6 credits may be 800-level courses numbers, if approved by the adviser prior to being used for a master's program. Courses numbered 808 are not allowed.
 - e. With adviser and department chair approval, up to 15 credits may be transferred in from other institutions.
 - f. With adviser and department chair approval, up to 15 credits from PSU taken prior to admission may be included in the program.
 - g. The total credits of (e.) and (f.) cannot exceed 15.
2. The student will select one of three options to complete the requirements for the master's degree: (1) an independent action research project, (2) a thesis, or (3) a written comprehensive examination. The thesis requires an oral examination in addition to the written product.

Early Childhood Specialization

The Graduate School of Education offers graduate-level courses for professionals seeking to strengthen their understanding and skills in the area of early childhood education (ECE). This coursework focus is appropriate for those pursuing a master's degree in curriculum and instruction with a specialization in ECE. For more information, please see our Web site at www.pdx.edu/ci/early-childhood-specialization.

Core Classes (24 credits)

CI 510	Guidance for the Classroom Teacher	3
CI 561	Advanced Educational Psychology	3
CI 565	Theoretical Models of Curriculum	3
CI 567	Curriculum and Culture	3
CI 580	Theories of Instruction	3
CI 581	Issues in Education	3
CI 590	Action Research Proposal	3
CI 591	Action Research Implementation	3

OPTION III: COUNSELING

All students who are pursuing a master's degree in counselor education must complete core courses with some additional work needed based on program requirements. This program satisfies University and Graduate School of Education requirements and is part of the requirements needed prior to taking the NCE examination of the National Board for Certified Counselors (NBCC) or the CRC examination of the Commission on Rehabilitation Counselor Certification (CRCC). This program is also approved by the Oregon Board of Licensed Professional Counselors and Therapists and the Teacher Standards and Practices Commission of Oregon. Students should work with their advisers in the process of understanding the licensure requirements of both of these credentialing groups.

The primary purpose of the counselor education department is to educate competent counselors for public and private schools, community behavioral health agencies and rehabilitation settings. The program is designed to strengthen competencies in the behavioral sciences and to broaden the students' background in human growth and development, counseling theories and interventions, interpersonal relations, individual and group processes, career counseling, assessment, diagnosis and treatment planning, research and program evaluation, and multicultural aspects of counseling.

Students may pursue one of four areas of specialization within the counselor education department: clinical mental health counseling; clinical rehabilitation counseling; school counseling; marital, couple, and family counseling. This is primarily an evening program. The program takes three years to complete.

Students can choose (a) written comprehensive exam, (b) thesis, or (c) professional portfolio (for school counseling students only). Thesis credits are in addition to the required credits for graduation. The thesis must be no less than 6 credits and no more than 9 credits.

Note: Students in all four specializations must complete Coun 541 Introduction to Counseling and one course in psychopathology prior to admission or before enrollment in the fall term of the first sequence of coursework. Additional prerequisites are specified for students in the school counseling specialization (see "Licensure (p. 138)"). Courses numbered 808 are not allowed.

Core courses (56 credits)

Coun 504	Internship	12
Coun 509	Practicum: Group Counseling	1
Coun 509	Practicum: Counseling	6
Coun 509	Practicum: Peer Supervision	2
Coun 531	Foundations of Addictions Counseling	3
Coun 543	Interpersonal Relations II	3
Coun 551	Theories and Interventions I	3

Coun 566	Appraisal Instruments	1
Coun 567	Using Tests in Counseling	3
Coun 568	Career and Lifestyle Planning	3
Coun 569	Developmental Foundations of Counseling	3
Coun 570	Ethical and Legal Issues in Counseling	3
Coun 571	Group Counseling	3
Coun 580	Supervision	1
Coun 581	Multicultural Perspectives in Counseling	3
Coun 582	Research and Program Evaluation in Counseling	3
Coun 585	Diagnosis and Treatment Planning I	3

Clinical Mental Health Counseling Specialization

The clinical mental health counseling specialization prepares individuals to work as counselors in a range of private and public clinical mental health settings, including outpatient and inpatient treatment agencies, community mental health, counseling centers at colleges and universities, and in private practice. This program intentionally integrates a multicultural and social justice-oriented lens throughout our coursework and clinical experiences. The program of study leading to an M.A./M.S. in Counselor Education with a Clinical Mental Health Counseling specialization must include the following 90 credits:

Courses

Coun 507	Crisis Assessment and Intervention	1
Coun 544	Consultation: Theory and Practice	2
Coun 546	Grief and Loss	2
Coun 552	Theories and Interventions II	3
Coun 553	Advanced Therapeutic Strategies	3
Coun 572	Systemic Perspectives on Human Sexuality	3
Coun 575	Foundations of Couples, Marriage, and Family Counseling	3
Coun 577	Family Therapy or	3
Coun 578	Couples Therapy	3
Coun 586	Psychopharmacology and Mental Illness	3
Coun 587	Foundations of Mental Health Services	3
Coun 588	Diagnosis and Treatment Planning II	3
	Electives	5

Subtotal: 90

Clinical Rehabilitation Counseling Specialization

The Clinical Rehabilitation Counseling Specialization prepares individuals to work with people with chronic illness and disabilities in a variety of settings such as the public and private rehabilitation systems, in-patient and out-patient rehabilitation facilities, clinical mental health settings, employment providers and educational environments. Emphasis is placed on the development of effective interpersonal counseling skills, career development and vocational services, and psycho social adjustment counseling to assist clients and their families to improve the quality of their lives via self-sufficiency and economic independence. The program of study leading to an M.A./M.S. in Education with a Clinical Rehabilitation Counseling and Clinical Mental Health Specialization must include the following 90 credits:

Courses

	Core coursework	56
Coun 552	Theories and Interventions II	3
Coun 575	Foundations of Couples, Marriage, and Family Counseling	3
Coun 586	Psychopharmacology and Mental Illness	3
Coun 587	Foundations of Mental Health Services	3
Coun 588	Diagnosis and Treatment Planning II	3
Coun 590	Foundation of Rehabilitation Counseling	3
Coun 591	Medical Aspects of Disability	3
Coun 592	Psychosocial Aspects of Disability	3
Coun 593	Case Management	3
Coun 594	Occupational Analysis/Vocational Evaluation	3
Coun 595	Contemporary Issues and Applications in Rehabilitation Counseling	3
	Elective	1

Subtotal: 90

Marriage, Couple, and Family Counseling Specialization

The marriage, couple, and family counseling program prepares individuals to work in mental health centers, community agencies, private practice, and additional settings in which counselors support clients with relationship and family issues. Emphasis is placed on preparing counselors for systemic assessment and intervention in the counseling process with a focus on diversity and equity. The program of study leads to an M.A. or M.S. and requires the completion of the following 90 credits:

Courses

Core coursework	56
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Coun 552	Theories and Interventions II	3
Coun 572	Systemic Perspectives on Human Sexuality	3
Coun 573	Contemporary Couples, Marriage, and Family Systems	3
Coun 574	Family Life Cycle and Transitions	3
Coun 575	Foundations of Couples, Marriage, and Family Counseling	3
Coun 577	Family Therapy	3
Coun 578	Couples Therapy	3
Coun 579	Advanced Systemic Interventions: Couples and Families	3
Coun 555	Counseling Children and Youth	3
Coun 588	Diagnosis and Treatment Planning II	3
Coun 544	Consultation: Theory and Practice	2
Coun 546	Grief and Loss	2
Subtotal: 90		

School Counseling Specialization

The school counseling specialization prepares individuals to work as counselors in school settings. Emphasis is placed on preparing school counselors to work with students to support them in the process of achieving academic, career, and personal/social success. Students who have a teaching license and two years teaching experience take 6 additional elective credits (Track I). Students who cannot document a teaching license and two years of teaching experience must complete a 6-credit, 200-hour Effective Teaching sequence to obtain licensure as a school counselor (see "Licensure") (Track II).

Courses

	Core coursework	56
Coun 526	Effective Teaching (Track I, 0 cr.; Track II, 6 cr.)	0 or 6
Coun 527	Counseling Individuals with Diverse Needs	3
Coun 545	Youth at Risk	3
Coun 546	Grief and Loss	2
Coun 547	Legal & Ethical Issues in School Counseling	1
Coun 555	Counseling Children and Youth	3
Coun 575	Foundations of Couples, Marriage, and Family Counseling	3
Coun 576	Parents, Families, and Communities in Schools	3
Coun 589	Action Research in Counseling	5
Coun 596	Foundations of School Counseling	3

COUN	Electives (Track I, 8 cr.; Track II, 2 cr.)	2 or 8
		Subtotal: 90

OPTION IV: SPECIAL EDUCATION

The Graduate School of Education offers comprehensive programs for the professional preparation of students in special education. A master's degree in special education may be completed in conjunction with state licensure in special education or may be completed independently. For licensing information see "Programs Leading to Licensure: Special Education" on Special Education Licensure Programs.

Students completing a master's degree must complete the special education master's degree core program. The master's core must total at least 9 credits. The remaining credits are drawn from the special education licensure program or other courses approved by the advisor. No more than 6 credits of 800-level courses may be used, and courses numbered 808 are not allowed. The master's degree without Oregon licensure must total at least 45 credits (which includes the master's core).

Core Courses

Students must complete SpEd 596 Topics in Special Education Research before SpEd 597 Topics in Special Education Issues and Practices. Topics such as Literacy, English Language Learners, Positive Behavior Intervention Supports, and Students with Significant Disabilities are offered. Students must fulfill a capstone experience by choosing either to complete a special project (SpEd 506) or a master's thesis (SpEd 503) under the direction of a faculty advisor. The special project (SpEd 506) must include a written product and presentation and align with the topic area chosen for SpEd 597. With advisor approval students may take up to 9 credits of SpEd 596 and 9 credits of SpEd in three topic areas. Students opting to complete a thesis will follow Portland State University theses guidelines. Students are required to enroll in 3-6 credits of Special Project (SpEd 506) or 6-9 credits of Thesis (SpEd 503).

The master's degree program includes:

	Advisor approved courses (from licensure program or electives)	30-36
SpEd 596	Topics in Special Education Research	3
SpEd 597	Topics in Special Education Issues and Practices	3

A combination of the following:

SpEd 503	Thesis	6-9
SpEd 506	Special Project	3-6

Visually Impaired Learners Focus

Students completing the Master's program with a focus on Visually Impaired Learners have the option of completing the Master's core program as described above or to complete SpEd 596, SpEd 597, an additional 6 elective hours in special education AND complete a proctored, written master's comprehensive examination.

For students with a focus on Visually Impaired Learners completing the master's degree program includes:

Advisor approved courses (from licensure program or electives)	30-36
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Option 1:

SpEd 596	Topics in Special Education Research	3
SpEd 597	Topics in Special Education Issues and Practices	3

A combination of the following:

SpEd 503	Thesis or	6-9
SpEd 506	Special Project	3-6

Option 2:

Electives with advisor approval	6
Complete proctored master's comprehensive examination	

Inclusive Elementary Educator Program

Students completing the Master's program as part of the Inclusive Elementary Educator Program must satisfy the special education Master's core program requirements by completing the required courses as follows:

Ed 530	Introduction to Inclusion and Special Education	2
Ed 536	Educational Research and Inclusive Education	3
SpEd 506	Special Project	6
or		
SpEd 503	Thesis	6

OPTION V: EARLY CHILDHOOD EDUCATION

This innovative early childhood education program emphasizes educating professionals to welcome multiple perspectives, engage all members of the community, experiment and build theories, make learning and listening visible, and think deeply together for all children. In the field of early childhood today, educators are working with children with differing abilities and strengths. Knowledge of inclusive early childhood education and accompanying practices are necessary to foster education for all children. Students who complete the program will have a choice of four specialty areas.

The four specialty areas include: Constructivism in Early Childhood, Early Childhood Special Education, Infant Toddler Mental Health, and a Distributed Focus that draws from the other three specializations. Students will

participate in three courses that were jointly developed by CI and SPED faculty and have a distinct focus on inclusive education.

General requirements

Core Courses

Ed 550	Foundations in Early Childhood and Inclusive Education	4
Ed 551	Child Development in Early Childhood and Inclusive Education	4
Ed 552	Issues in Early Childhood and Inclusive Education	4
CI 590	Action Research Proposal	3
CI 591	Action Research Implementation	3

Electives

Adviser approved electives taken within the Graduate School of Education	9
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Subtotal: 27

Constructivism

Courses

CI 571	Play: Curriculum in Early Childhood Education	3
CI 573	Assessment and Technology in Early Childhood Education	3
CI 576	Equity and Cultural Diversity in Early Childhood Education	3
CI 577	Learning Designs: Early Childhood Environments	3
CI 578	Constructivist Curriculum: Big Ideas in Early Childhood Education	3
CI 579	Young Child as Scientist	3
or		
CI 572	Language and Literacy in Early Childhood Education	3

Subtotal: 18

Early Childhood Special Ed

Courses

SpEd 510	Inclusive Early Childhood Models	3
SpEd 520	Collaboration I: Families and Community - EL and EI/SE	3
SpEd 580	Introduction to Early Intervention/Early Childhood Special Education	3
SpEd 582	Specialized Techniques: Early Intervention/Early Childhood Special Education	3
SpEd 583	Communication and Language Development: EI/SE (Early	3

	Intervention/Early Childhood Special Education)	
SpEd 586	Instructional Strategies II: EI/SE	3
Subtotal: 18		

Infant Toddler Mental Health**Courses**

SpEd 510	Introduction to Infant Toddler Mental Health or Another course with advisor approval	3
Coun 520	Collaborative Partnerships to Support Infants and Toddlers	1-3
CI 592	Dynamic Models of Infant/Toddler Development	3
SpEd 594	Assessment Methods and Classification in Infant Mental Health	3
SpEd 595	Prevention and Intervention in Infant Mental Health	3
Coun 597	Strengths, Risk Factors, and Disturbance in Infants, Toddlers, and Their Families	3
Subtotal: 18		

Distributed Focus

Take a minimum of two courses from each strand with approval of adviser.

Subtotal: 18**EDUCATIONAL LEADERSHIP ED.D.**

The Ed.D. in Educational Leadership, offered by the Graduate School of Education, is the school's highest professional degree. It is designed to prepare scholarly practitioners and to help formal and informal educational leaders develop their capacity to provide leadership that makes a positive and significant difference in the professional fields and diverse communities they serve. Emphasis is on the development of excellent professional performance as leaders in education in: public and private schools; community and four-year colleges and universities; community, state, and federal educational agencies; and nonschool settings, where appropriate.

Four specializations are available to students: administration (PreK-12); curriculum and instruction; postsecondary education; and special education. Each student is admitted to one of the four specializations.

GENERAL REQUIREMENTS

The program is a post-master's degree program. Students must have earned a master's degree or the equivalent prior to enrollment in the program. A minimum of 72 credits

must be completed at Portland State University after admission to the doctoral program, to include the leadership core, specialization, and dissertation. Courses numbered 800 or above are not allowed. Continuous enrollment is required. Foreign language competency is not required for the Ed.D. degree.

Leadership core

Ed 620	Doctoral Studies Proseminar	1-4
Ed 630	Principles and Practices of Learning	4
Ed 640	Organizational and Leadership Theory and Research in Education	4
Ed 650	Educational Policy and Politics	4
Ed 660	Foundations of Research Paradigms and Methods	4
Ed 661	Qualitative Research Methods in Education	4
Ed 662	Quantitative Research Methods in Education	4

Specialization (27 credits minimum)

Students will complete a minimum of 27 hours of coursework in the following specializations:

- Administration (P-12)
- Curriculum and Instruction
- Postsecondary Education
- Special and Counselor Education

Comprehensive Examination

The comprehensive examination covers the leadership core and is taken when the student has completed the first year of the leadership core (ED 620, ED 630, ED 640, and ED 650). The comprehensive examination is designed to assess a student's ability to analyze, synthesize, and apply frameworks from the leadership core to an educational topic of significance. Students write an academic paper for the examination. The paper is evaluated by a faculty committee. Specializations may require that the student present and defend the paper to a faculty committee in a public meeting.

Dissertation

The doctoral dissertation represents original and independent inquiry that is a contribution to knowledge or is of value for educational practice. Students may elect to employ one of several different approved inquiry strategies, including—but not limited to—traditional research designs and methods, ethnographic and descriptive case studies, policy analyses, product development and field testing, and program evaluation. A

minimum of 18 credits is directed toward the dissertation project.

Residency

As is required for all doctoral degrees at PSU, candidates for the Ed.D. degree fulfill the residency requirement after admission to the doctoral program. Residency can be satisfied in one of the two following ways:

- Three terms of full-time enrollment (minimum 9 graduate credits applicable to the degree program each term) during the first two years after admission to the program in coursework, the study of practice (i.e., field-based work), credits by arrangement, and/or dissertation credits. This may include summer term.
- Six terms of part-time enrollment (minimum 1 graduate credit applicable to the degree program each term) during the first two years after admission to the program in coursework, the study of practice (i.e., field-based work), credits by arrangement, and/or dissertation credits. This may include one or more summer term.

Graduate Certificates

ADDICTIONS COUNSELING CERTIFICATE

*****The PSU Addictions Counseling Certificate program is being discontinued. Admissions to this program is currently closed and new students are not being accepted.*****

A series of seven courses at the graduate level, providing a broad overview of addictions counseling, concepts of treatment, and clinical skills. The program is intended for human services treatment professionals in the community and graduate students in related fields, to enable them to acquire training and education in science-based practices and to provide the knowledge essential to working with addicted populations (19 credits).

DEGREE REQUIREMENTS

Core Courses

Courses are designed to be taken in numeric sequence with the exception of COUN 507 which can be taken at anytime. The Capstone class cannot be taken until the other classes have been successfully completed.

Coun 531	Foundations of Addictions Counseling	3
Coun 532	Assessment and Diagnosis in Addictions Counseling	3

Coun 533	Treatment of Substance Use Disorders I	3
Coun 534	Treatment of Substance Use Disorders II	3
Coun 535	Co-Occurring Disorders	3
Coun 536	Addictions Counseling Capstone	3
Coun 507	Addiction Pharmacology	1

Subtotal: 19

Total Credit Hours: 19

INFANT TODDLER MENTAL HEALTH CERTIFICATE

A series of online course work spanning four quarters for professionals who provide services to families with children from the prenatal period to 36 months of age, taught by an inter-professional team of faculty. Focuses on infant and toddler social, emotional and developmental difficulties; protective factors in family environments, risk factors for mental health problems in family environments, early screening and assessment, theories of treatment, home- and community-based interventions, diagnostic classification systems for mental health disorders in young children, and collaborative service approaches.

DEGREE REQUIREMENTS

Program of Study

CI 592	Dynamic Models of Infant/Toddler Development	3
Coun 597	Strengths, Risk Factors, and Disturbance in Infants, Toddlers, and Their Families	3
SpEd 594	Assessment Methods and Classification in Infant Mental Health	3
SpEd 595	Prevention and Intervention in Infant Mental Health	3
Coun 507	Professional Development in Infant Mental Health	5
Coun 520	Collaborative Partnerships to Support Infants and Toddlers	1-3

Subtotal: 20

Subtotal: 20

Total Credit Hours: 20

ORIENTATION AND MOBILITY STAND ALONE CERTIFICATE

The Orientation and Mobility (O&M) Certificate provides learners with the knowledge and skill competencies recognized by the Academy for Certification of Vision

Rehabilitation and Education Professionals (ACVREP) and the Association for Education and Rehabilitation of the Blind and Visually Impaired (AERBVI) to promote the safe and efficient travel skills of individuals who are blind, visually impaired or deafblind. O&M Specialists provide individualized assessment, and instruction to individuals with visual impairment based upon an individual's needs, strengths, preferences and goals within settings that are important to the individual with visual impairment. The O&M Stand Alone certificate at PSU is a program of study for those who are not working as teachers of the visually impaired but who wish to provide O&M services in rehabilitation, community, or other educational settings.

REQUIREMENTS

Courses

SpEd 540	Foundations of Education for the Visually Impaired Learner	3
SpEd 541	Implications of Vision Problems of Children/Youth	3
SpEd 545	Introduction to Orientation and Mobility and Independent Living Skills	3
SpEd 549	Orientation and Mobility Methods	3
SpEd 550	Orientation and Mobility Assessment and Instruction - Children	3
SpEd 551	Orientation and Mobility Assessment and Instruction - Adults	3
SpEd 552	Orientation and Mobility Advanced Techniques	4
SpEd 509	STE I Orientation and Mobility Practicum	3
SpEd 509	STE II Orientation and Mobility Practicum	3
SpEd 509	STE III Orientation and Mobility Practicum	3
SpEd 509	STE IV Orientation and Mobility Practicum	3

The following course is recommended but not required. It may be taken as an elective for a Master's degree.

SpEd 576	Visually Impaired Learner with Additional Disabilities	3
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Subtotal: 34

All students complete 12 credits of Orientation and Mobility (O&M) practicum which is equal to 400 hours of clinical O&M experience that align with ACVREP requirements. O&M practicum credits are variable and may be taken in 3-12 credit increments across multiple terms depending upon the practicum placement hours and the availability of a supervising Certified Orientation and Mobility Specialist (COMS). The O&M Program Coordinator works with students to arrange practicum

placements based on geography, student interests, and availability of clinical partners within educational, rehabilitation and community settings. Student are eligible to sit for the national certifying exam for Orientation and Mobility Specialists upon the completion of coursework and the submission of the appropriate documentation to ACVREP.

Total Credit Hours: 34

ORIENTATION AND MOBILITY ADD-ON CERTIFICATE FOR TEACHERS OF THE VISUALLY IMPAIRED

The Orientation and Mobility (O&M) Certificate provides learners with the knowledge and skill competencies recognized by the Academy for Certification of Vision Rehabilitation and Education Professionals (ACVREP) and the Association for Education and Rehabilitation of the Blind and Visually Impaired (AERBVI) to promote the safe and efficient travel skills of individuals who are blind, visually impaired or deafblind. O&M Specialists provide individualized assessment, and instruction to individuals with visual impairment based upon an individual's needs, strengths, preferences and goals within settings that are important to the individual with visual impairment. The O&M Add-On Certificate is an abbreviated program of study that builds upon the foundational knowledge of Teachers of the Visually Impaired and expands the learner's knowledge and skills to provide O&M services to students with visual impairments.

REQUIREMENTS

Courses

SpEd 549	Orientation and Mobility Methods	3
SpEd 550	Orientation and Mobility Assessment and Instruction - Children	3
SpEd 551	Orientation and Mobility Assessment and Instruction - Adults	3
SpEd 552	Orientation and Mobility Advanced Techniques	4
SpEd 509	STE I Orientation and Mobility Practicum	3
SpEd 509	STE II Orientation and Mobility Practicum	3
SpEd 509	STE III Orientation and Mobility Practicum	3
SpEd 509	STE IV Orientation and Mobility Practicum	3

Subtotal: 25

All students complete 12 credits of Orientation and Mobility (O&M) practicum which is equal to 400 hours of clinical O&M experience that align with ACVREP

requirements. O&M practicum credits are variable and may be taken in 3-12 credit increments across multiple terms depending upon the student's work schedule, the available practicum placement hours and the availability of a supervising Certified Orientation and Mobility Specialist (COMS). The O&M Program Coordinator works with students to arrange practicum placements based on geography, student interests, and availability of clinical partners within educational, rehabilitation and community settings. Student are eligible to sit for the national certifying exam for Orientation and Mobility Specialists upon the completion of coursework and the submission of the appropriate documentation to ACVREP.

SERVICE-LEARNING AND COMMUNITY BASED LEARNING IN POSTSECONDARY EDUCATION CERTIFICATE

Gain high impact knowledge, skills, and strategies for how to teach, coordinate, lead, and assess forms of service-learning, community engagement, and community-based research in order to realize educational improvement and enhancement across diverse individuals and cultural communities (18 credits).

REQUIRED COURSES

Program of Study (12 credits)

ELP 542	Introduction to Service-Learning: Theoretical & Pedagogical Perspectives in Postsecondary Education	4
ELP 543	Service-Learning & Community Based Learning in Postsecondary Educational Leadership & Policy Dom	4
ELP 522	Teaching Diverse Adult Learners	4
ELP 536	Postsecondary Curriculum	4
ELP 528	Leadership in Postsecondary Education	4

Culminating Experience (2 credits)

ELP 506	Culminating Project	2
ELP 509	Culminating Practicum	2

Elective Courses (choose one) (4 credits)

Any ELP course 511-599 can count as an elective. Refer to the *ELP Course Planning Guide* for current offerings and delivery formats (online, hybrid, F2F).

Subtotal: 18

Total Credit Hours: 18

STUDENT AFFAIRS IN HIGHER EDUCATION CERTIFICATE

Provides professional development for individuals in student affairs and student services positions in two and four-year colleges (18 credits).

REQUIRED COURSES

Program of Study (12 credits)

ELP 525	Student Services in Higher Education	4
ELP 526	Facilitating Student Success in Postsecondary Education	4
ELP 527	Legal Issues in Higher Education	4

Culminating Experience (2 credits)

ELP 506	Culminating Project	2
ELP 509	Culminating Practicum	2

Elective Courses (choose one) (4 credits)

Any ELP course 511-599 can count as an elective. Refer to the *ELP Course Planning Guide* for current offerings and delivery formats (online, hybrid, F2F).

Subtotal: 18

Total Credit Hours: 18

TEACHING ADULT LEARNERS CERTIFICATE

Focuses on the teaching and motivation of diverse adult learners and the most effective strategies to ensure learning and professional development (18 credits).

REQUIRED COURSES

Program of Study (12 Credits)

ELP 520	Developmental Perspectives on Adult Learning	4
ELP 521	Adult Learning and Motivation	4
ELP 522	Teaching Diverse Adult Learners	4

Culminating Experience (2 credits)

ELP 506	Culminating Project	2
ELP 509	Culminating Practicum	2

Elective Courses (choose one) (4 credits)

Any ELP course 511-599 can count as an elective. Refer to the *ELP Course Planning Guide* for current offerings and delivery formats (online, hybrid, F2F).

Subtotal: 18

Total Credit Hours: 18**TRAINING & DEVELOPMENT
CERTIFICATE**

Provides experiential preparation and professional development in training and development for those who develop, teach/train, manage, and/or consult utilizing multiple delivery models. Based on the Association for Talent Development (formerly ASTD, American Association for Training & Development) national competencies (18 credits).

REQUIRED COURSES**Required Courses (6 to 7 credits)**

ELP 529	Principles of Training and Development	3
ELP 530	Course Design and Evaluation or	4
ELP 584	Strategies for eLearning	3

Specialization Courses**Training (6 credits)**

ELP 532	Training Methods	3
ELP 539	Developing Training Materials	3

Culminating Experience (2 credits)

ELP 506	Culminating Project or	2
ELP 509	Practicum	2

Recommended Elective Courses (2-4 credits)

Any ELP course 511 - ELP 599 can count as an elective. Refer to the ELP Course Planning Guide for current offerings and delivery formats (online, hybrid, F2F).
Subtotal: 18

Total Credit Hours: 18**Licensure**

In Oregon, a system of multiple measures is used to determine the status of program completers, who can then be recommended to the Teacher Standards and Practices Commission (TPSC) for licensure. One component of this system requires the educator to pass a basic skills test, subject matter tests, and a civil rights knowledge test. For information on Oregon testing requirements please refer to the Teacher Standards and Practices Commission website.

Because passing tests is required for program completion in Oregon, the state pass rate is 100%. Those who do not pass the required tests are not considered program completers and are not eligible for licensure recommendation.

**ELEMENTARY MATHEMATICS
INSTRUCTIONAL LEADER
SPECIALIZATION**

The Mathematics Instructional Leader Program in the Graduate School of Education consists of graduate mathematics content, pedagogy, and leadership courses and a practicum specifically designed for K-8 teachers, teacher leaders, and coaches. The goals of the program are to offer a comprehensive mathematics education experience that:

- Deepens mathematical content knowledge including the specialized knowledge needed for teaching mathematics and the development of mathematical ideas across the grades.
- Attends to both content and pedagogy and the ways that teaching supports the learning of content.
- Develops expertise in using and helping others use effective instructional practices centered on students' mathematical thinking.
- Increases ability to support school and district efforts that help all K-8 students learn important mathematics.

REQUIREMENTS**Mathematics Content-Focused Methods Courses**

(choose five of the seven)

CI 511	Examining Base Ten Numeration and Operations	3
CI 512	Examining Operations with Whole Numbers and Fractions	3
CI 513	Enhancing Algebraic Thinking: Generalization about Operations	3
CI 514	Enhancing Algebraic Thinking: Patterns and Functions	3
CI 515	Developing Geometric Thinking and Concepts	3
CI 516	Exploring Measurement Concepts	3
CI 517	Developing Concepts of Data Analysis	3

Advanced Mathematics Methods Course

(recommended after completing at least two courses)

CI 518	Implementing Mathematics Reform	3
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Educators seeking the 21-credit *Certification of Completion in Deepening Understanding of Elementary Mathematics* may choose to either complete CI 519 or select a sixth Mathematics Content-Focus Methods Course.

Those seeking the 24-credit *Elementary Mathematics Instructional Leader Specialization* complete both CI 519 and CI 521.

Mathematics Leadership Focused Courses

CI 519	Mathematics Leadership: Influencing and Facilitating Improvement	3
CI 521	Practicum: Mathematics Leadership	1-3

If desired, the graduate credit received can be applied toward an M.A., M.S., or Ed. D. in the Department of Curriculum and Instruction in the Graduate School of Education.

For more information see:

<http://www.pdx.edu/ci/deepening-math>

GRADUATE TEACHER EDUCATION PROGRAMS

The Graduate Teacher Education Programs are two licensure programs, one in elementary and one in secondary, that also include the Master's of Education (M.Ed.) degree.

These programs are designed for students who wish to teach in public schools and are available in one-year and two-year formats. Successful completion of these programs culminates in a recommendation to Oregon's Teacher Standards and Practices Commission for a teaching license. Specific program admission requirements and application details are available at www.pdx.edu/ci/gtep-info.

The M.Ed. is earned by students who have completed PSU's Graduate Teacher Education Programs (GTEP).

PROGRAM REQUIREMENTS

Early childhood and elementary

ITP 536	Learning and Development	3
ITP 538	Integrated Methods and Curriculum Design	1-6
ITP 537	Instructional Design and Assessment	
ITP 514	Educating for Equity and Social Justice	3
Ed 518	Inclusive Elementary Classrooms	2

ITP 543	Professional Collaboration in Elementary Education	1-3
ITP 535	Cultivating Responsive Elementary Classrooms	1
ITP 545 or 548	Student Teaching I	3*
ITP 534	Foundations of Culturally and Linguistically Responsive Practice at the Elementary Level	2
ITP 540	Foundations of Literacy	3
ITP 539	Elementary Mathematics Methods	3
ITP 541	Literacies in the Elementary Classroom	4
ITP 542	Integrated Elementary Science Methods	2
ITP 546 or 549	Student Teaching II	6*
ITP 547 or 550	Student Teaching III	12*

Subtotal: 45-66

*required for licensure but may not be applied to M.Ed.

Total 66 credits for license

Total 45 credits for M.Ed.

Middle level and high school

ITP 509	Practicum	1-12
ITP 511	Classroom Management for Student Success	3
ITP 512	Learning and the Learner	3
ITP 513	Technology as a Tool for Learning	3
ITP 514	Educating for Equity and Social Justice	3
ITP 515	Foundations of Culturally and Linguistically Responsive Practice at the Secondary Level	3
ITP 516	Engaging Young Adolescent Learners	3
ITP 517	or Engaging Adolescent Learners	3
ITP 518	Assessment for Learning	2
ITP 520	Literacies in the Disciplines	3
ITP 521-528	Secondary Methods	10
ITP 529	Professional Seminar -Secondary	1
ITP 530 or 532	Student Teaching I	8*
ITP 531 or 533	Student Teaching II	13*
ITP 551	Research and Classroom Inquiry	1-4
Ed 519	Inclusive Secondary Classrooms	3

Subtotal: 45-66

*required for licensure but may not be applied to M.Ed.

Total 66 credits for license

Total 45 credits for M.Ed.

Secondary education at Portland State University is available in the following endorsement areas: art, biology, chemistry, foreign languages, health education, integrated science, language arts, mathematics, music, physical education, physics, and social studies. Initial subject matter endorsement requirements are outlined in the appropriate department section of this catalog. Not all endorsement areas are offered every year; check the GTEP website for current information.

INCLUSIVE ELEMENTARY EDUCATOR PROGRAM (IEEP)

with Master's Degree

The Graduate School of Education offers a dual licensure program in early childhood and elementary general and special education that also includes a master's degree. This full-time program of integrated coursework and field experiences is completed over six terms. Students are licensed to teach early childhood and elementary (pre-K to grade 8) and special education. Faculty from both curriculum and instruction and special education departments are instructors in this program. This program reflects the rapidly changing nature of America's schools, where a wide range of diverse learners can be found in most classrooms.

REQUIREMENTS

Courses

SpEd 537	Reading Assessment & Instruction (Elementary)	4
ITP 535	Cultivating Responsive Elementary Classrooms	1
ITP 509	Initial Field Experience	1
Ed 530	Introduction to Inclusion and Special Education	2
Ed 532	Human Development and Learning	3
Ed 509	Practicum of Children/Youth	1-9
Ed 534	Literacy Methods for the Inclusive Classroom	3
SpEd 548	Positive Behavior Support in the Classroom	3
ITP 539	Elementary Mathematics Methods	3
Ed 535	Classroom Based Assessment for the Inclusive Educator	2
Ed 531	Planning and Instruction for Students with Special Needs	3
Ed 509	Practicum of Children/Youth	1-9

ITP 514	Educating for Equity and Social Justice	3
ITP 542	Integrated Elementary Science Methods	2
ITP 538	Integrated Methods and Curriculum Design	1-6
ITP 546 or 549	Student Teaching II	6*
Ed 536	Educational Research and Inclusive Education	3
Ed 537	Professional Seminar I: Law and Ethics	1
ITP 547 or 550	Student Teaching III	12*
ITP 509	Initial Field Experience	1
SpEd 512	Diagnostic Assessment	4
SpEd 509	Practicum Special Ed	2
SpEd 525	Student Teaching	6
SpEd 522	Comprehensive Individualized Assessment and Curriculum I	3
SpEd 523	Comprehensive Individualized Assessment and Curriculum II	3
Ed 542	Collaboration for the Inclusive Elementary Educator	2
Ed 539	Professional Seminar III: Reflection and Job Search	1
SpEd 506	Special Problems	1-6

Subtotal: 95

SECONDARY DUAL EDUCATOR PROGRAM (SDEP)

The Graduate School of Education offers a dual licensure program in a content area (e.g. math, social studies, English, science, etc.) and special education that also includes a master's degree. This full-time program of integrated coursework and field experiences is completed over six terms plus one summer. Students also receive additional instruction in supporting English language learners. Faculty from both the Curriculum and Instruction and the Special Education departments teach in the program. The program reflects the rapidly changing needs of America's schools where a wide range of diverse learners are found in each classroom.

REQUIREMENTS

Courses

CI 543	Effective Tchg Strategies & Materials for Working with Linguistically & Culturally Diverse Stdnts	3
Ed 507	Seminar I: Student Teaching	1
Ed 581	Inclusive Classroom Researcher	2

Ed 583	Study Skills and Learning Strategies	2
Ed 585	Instructional Planning for Inclusive Classrooms	4
Ed 586	Collaborative Teaching	2
Ed 587	Inclusive Educational Research and Leadership	2
ITP 511	Classroom Management for Student Success	2
ITP 512	Learning and the Learner	3
ITP 514	Educating for Equity and Social Justice	3
ITP 521-528	Secondary Methods	10
SpEd 513	Classroom Based Assessment and Instructional Planning	3
SpEd 548	Positive Behavior Support in the Classroom	3
SpEd 528	Instructional Methods I: Literacy	3
SpEd 529	Instructional Methods II: Math and Content	3
SpEd 571	Adolescents with Learning Differences	2
Ed 509	Initial Field Experience	3
Ed 582	Collaborative Teaming and the Special Education Process	4
Ed 584	Advocacy and Transition Planning	2
ITP 580	Student Teaching I in Inclusive ML/HS	6
ITP 581	Student Teaching II in Inclusive ML/HS	12
SpEd 509	Prac I: Supervised Field Experience	3
SpEd 509	Prac II: Supervised Field Experience	3
SpEd 512	Diagnostic Assessment	3-4
SpEd 522	Comprehensive Individualized Assessment and Curriculum I	3
SpEd 523	Comprehensive Individualized Assessment and Curriculum II	3
SpEd 525	Student Teaching	6
SpEd 536	Specialized Techniques	3
SpEd 577	Interagency Collaboration	2

Subtotal: 98

8 credits total in Secondary Methods courses ITP 521, ITP 522, ITP 523, ITP 524, ITP 525, ITP 526, ITP 527, and ITP 528 from your content area required.

INTERNATIONAL TEACHER EDUCATION PROGRAM

The Graduate School of Education offers an International Teacher Education Program for students who hold teaching licenses in other countries and who are seeking Oregon

teaching licenses. It is designed to meet the Initial Teaching Licensure requirements set forth by Oregon's Teacher Standards and Practices Commission. Through an individualized planned program, students fulfill all of the requirements stated above for the Graduate Teacher Education Program through either equivalency, substitution, or current coursework/classroom experiences. A 6-credit student teaching experience is required, along with a minimum of 17 credits of coursework taken at PSU. Candidates will need to pass a state required performance assessment. For admissions procedures, testing requirements, and an appointment with program faculty, please call the GSE receptionist at 503-725-4619.

BILINGUAL TEACHER PATHWAY (BTP) PROGRAM

The Graduate School of Education offers a preparation program for bilingual/bicultural employees in partner school districts seeking initial teacher licensure at the elementary level.

The BTP core consists of 35 credits and 13 credits of field experience. In addition, the ESOL endorsement of 22 credit hours is integrated into the program plan of study. Required prerequisite classes should be completed prior to admission into the BTP program. Students may apply at the undergraduate (135 credits/senior status) or graduate level. BTP is a part-time program offering evening and weekend classes. For more information and school district partners, please see the BTP site at www.pdx.edu/ci/btp.

Please Note: The BTP Program is undergoing revisions during the 2018-2019 Academic Year (thus the multiple 410/510 course numbers).

REQUIREMENTS

Early Childhood and Elementary Education

BBE 410-510	Human Development & Learning in Multi-cultural/lingual Communities	4
BBE 424-524	Professional Development & Reflection	2
BBE 432-532	Language and Literacy Development of Diverse Learners	3
BBE 434-534	Planning, Assessment, and Curriculum	3
BBE 410-510	Introduction to Elementary Mathematics Methods	3
BBE 410-510	Culturally Responsive Learning Environments	3
BBE 410-510	Elementary Integrated Methods	3

BBE 410-510	Technology & Education	3
BBE 410-510	Integrated Elementary Science Methods	3
BBE 410-510	Reflective Practitioner	4
BBE 410-510	Inquiry into Language, Literacy & Culture	4
ITP 545 or 548	Student Teaching I	4*
ITP 546 or 549	Student Teaching II	9*
CI 443/543	Effective Strategies for Language Minority Students	3
CI 496/596	Second Language Acquisition & Development for K-12 Educators	3
CI 497/597	Assessment of Language and Content Learning for K-12 English Learners	2
ELP 465/565	School and Community Relations	3
ELP 466/566	Impact of Language and Culture	3
ELP 467/567	ESL/Bilingual Program Designs and Models	3
SpEd 455/555	Working with LEP with Special Needs	2
CI 509	Practicum in ESL/Bilingual Education	3*

Subtotal: 57-70

*required for licensure but may not be applied toward the M.Ed.

Total 57 credits for M.Ed

Total 70 credits for licensure

INITIAL K-12 TEACHING LICENSE IN LIBRARY MEDIA

Not admitting students to the program at this time. The program is under revision.

Students have the option of selecting a program leading to a K-12 Initial Teaching License in library media. The program includes library media and education coursework, and student teaching experience in a library media center. This enables the student to be a K-12 library media specialist, but not a classroom teacher.

Admission Requirements

The Graduate School of Education and Continuing Education/School of Education have a number of general requirements for admission to this licensure program:

- Bachelor's degree from an accredited institution
- Admission to PSU
- Cumulative 3.00 GPA
- Psy 311 Human Development (or equivalent)
- CI 432 Computer Applications for the Classroom (or equivalent)
- Lib 428/528 Children's Literature (or equivalent)
- Lib 429/529 Young Adult Literature (or equivalent)
- SpEd 418/518 Survey of Exceptional Learner
- C-BEST (California Basic Educational Skills Test) or PRAXIS PPST (Pre-Professional Skills Test)

PROGRAM REQUIREMENTS

Courses

CI 511	Examining Base Ten Numeration and Operations	3
CI 512	Examining Operations with Whole Numbers and Fractions	3
CI 513	Enhancing Algebraic Thinking: Generalization about Operations	3
CI 514	Enhancing Algebraic Thinking: Patterns and Functions	3
CI 516	Exploring Measurement Concepts	3
Lib 530	Literature Promotion Programs, K-12	3
Lib 534	Administration of the School Library	3
Lib 536	Instructional Design and Technology for Schools & Libraries	3
Lib 541	Reference and Information Systems and Services	3
Lib 542	Collection Development and Evaluation	3
Lib 548	Cataloging and Organization of School Library Collections	3
Lib 554	Student Teaching I	6
Lib 555	Student Teaching II	15

Choose One:

READ 530	Reading and Composition in the Content Areas	3
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Subtotal: 64

Students must score above Oregon's cut-off point on the Library Media Praxis Test for PSU to recommend them to TSPC.

For additional information about the program and course work, see www.pdx.edu/ceed/library-media-K-12-initial-license.

READOREGON

The ReadOregon program is a collaborative program between two universities in Oregon—Portland State University, and Southern Oregon University and consists of two available statewide online options:

- Reading Specialist Endorsement Program—graduate-level, online, 24-credit reading specialist endorsement program.
- Literacy Education Course of Study—graduate-level, online, 12-credit literacy education certificate of completion for general classroom teachers.

The goal of both options is to improve the literacy abilities of students in Oregon's schools. ReadOregon modules and courses were designed to be used toward a reading specialist endorsement, a concentration in a master's degree program, and/or a component of professional development in the area of literacy.

For more information about Portland State University's ReadOregon courses and admission, visit <http://www.pdx.edu/ci/ReadOregon>.

ESOL/BILINGUAL ENDORSEMENT

The Graduate School of Education offers a program leading to an ESOL/Bilingual endorsement for teachers already holding a valid Oregon teaching license. The authorized program is as follows:

REQUIREMENTS

Courses

CI 443/543	Effective Tchg Strategies & Materials for Working with Linguistically & Culturally Diverse Stdnts	3
CI 496/596	Second Language Acquisition and Development for K-12 Educators	3
CI 497/597	Assessment of Language and Content Learning for K-12 English Learners	2
ELP 465/565	School and Community Relations	3
ELP 466/566	Impact of Language and Culture	3
ELP 467/567	ESL/Bilingual Program Designs and Models	3
SPED 455/555	Working with LEP Children who Have Special Needs	2
CI 509	Practicum: ESOL-Bilingual Endorsement	3

Subtotal: 22

LIBRARY MEDIA ENDORSEMENT

The Graduate School of Education offers a program leading to a recommendation for a library media endorsement. The Library Media Endorsement Program consists of a comprehensive set of coursework (27 credits) that prepares students to be competent PreK-12 school librarians. Recommendation for the endorsement, to be added to a current teaching license, is made to Teacher Standards and Practices Commission (TSPC) when a candidate successfully completes this program (the following courses and two 60-hour practica) and receives passing scores on the Library Media NES/Pearson Exam.

REQUIREMENTS

Courses

Lib 509	Practicum	3
Lib 530	Literature Promotion Programs, K-12	3
Lib 534	Administration of the School Library	3
Lib 536	Instructional Design and Technology for Schools & Libraries	3
Lib 541	Reference and Information Systems and Services	3
Lib 542	Collection Development and Evaluation	3
Lib 547	School Library Instructional Programs, K-12	3
Lib 548	Cataloging and Organization of School Library Collections	3
Lib 561	School Library Practicum: Elementary and	3
Lib 562	School Library Practicum: Secondary	3

For information, see www.pdx.edu/ci/library

EDUCATIONAL ADMINISTRATION

Two authorized programs comprise the Executive Leadership Program leading to institutional recommendations for initial/preliminary and continuing/professional administrator licensure of qualified persons for positions as building and district level administrators. All students are required to have an approved program of study, as described below, filed with the Graduate School of Education. Admission requirements and detailed program information for each program are available from the Department of Educational Leadership and Policy (ELP) and on our Web page at <http://www.pdx.edu/elp/education-administration-licensure-specialization>.

THE INITIAL/PRELIMINARY ADMINISTRATOR LICENSE (IAL) PROGRAM

This program prepares individuals for positions as building-level administrators. This license requires completion of a master's degree and three years of teaching experience. The licensure program may be completed either as part of a master's degree in educational administration or subsequent to the completion of a master's degree in the professions from an accredited institution. The initial/preliminary administrator curriculum includes:

Courses

Prerequisites:

ELP 569	Introduction to Educational Administration	4
ELP 511	Principles of Educational Research and Data Analysis I	4

Core:

ELP 570	Human Relations and Educational Foundations	4
ELP 571	Teaching, Learning, and Curriculum	4
ELP 572	Human Resource Development and Organizational Change	4
ELP 573	Educational Leadership Project I	1
ELP 574	Education Leadership Project II	1
ELP 575	Educational Leadership Project III	1
ELP 509	Administrative Practicum	9

Subtotal: 32

THE CONTINUING/PROFESSIONAL ADMINISTRATOR LICENSURE PROGRAM (CAL)

This program prepares individuals for positions as continuing school administrators and as school district administrators. This program requires prior completion of the initial/preliminary administrator program or its equivalent.

Courses

ELP 576	Education, Community, and Society	4
ELP 577	District and School Staff Supervision and Evaluation	4
ELP 578	Communication and Conflict Management in Educational Organizations	4
ELP 579	Curriculum, Instruction, and Assessment Leadership	4
ELP 580	District Policy, Operations, Facilities, and Finance	4
ELP 581	U.S. and Oregon School Law and Policy	4

ELP 506	CAL-Special Problems	4
Subtotal: 28		

Students who completed an earlier licensure program prior to 2007 should consult with the Department of Educational Leadership and Policy (ELP) to determine what new license requirements must be met.

LITERACY EDUCATION/READING ENDORSEMENT

The GSE on-campus literacy program offers face-to-face and hybrid courses designed to help preservice and inservice teachers become stronger teachers of literacy and to help teachers develop literacy leadership skills.

Students in the Literacy Education Program will:

- Develop a theoretically-grounded, research-based, multi-faceted view of reading, writing, speaking, and listening with a focus on meaning making.
 - Examine the roles of and language in literacy development, assessment, and instruction.
 - Evaluate the strengths and limitations of assessment tools and assessment plans.
 - Use a constellation of assessments to identify students' complex patterns of literacy strengths and needs.
 - Design targeted, culturally-responsive instruction.
 - Plan family literacy outreach and facilitate literacy professional development experiences for colleagues.
 - Master the International Literacy Association standards for reading specialists and literacy coaches.
- On-Campus program options include:**

- A 25-credit reading endorsement program
- A 12-credit certificate of completion

Endorsement

The PSU reading endorsement program is a 25-credit program including a core of 16 credits, 3 credits of practicum, and 6 credits of electives. The program is designed to prepare students for careers as Title I teachers, reading specialists, literacy coaches, consultants, and district-level reading and language arts coordinators. A reading endorsement is also very useful for classroom teachers wishing to develop stronger knowledge about literacy and about teaching students from diverse linguistic and cultural backgrounds.

Completion of the following coursework, the PRAXIS Specialty Area Exam in Reading, and a 90 hour practicum

are required for an Oregon Reading (Intervention) Endorsement. No 400 or 800 level courses are accepted.

REQUIREMENTS

Core (16 credits)

CI 522	Literacy Foundations	4
CI 528	Literacy Assessment for Reading Specialists	3
CI 529	School Reading Program Leadership	3
CI 536	Language, Literacy, and Culture	3
CI 574	Assessing and Teaching Struggling Elementary Readers	3

Practicum (3 credits)

CI 509	Practicum: Reading Endorsement	1-9
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Electives (6 credits chosen in consultation with advisor)

CI 572	Language and Literacy in Early Childhood Education	3
CI 547	Advanced Elementary Literacy Methods	3
CI 520	Linguistics for Teachers	3
CI 524	Writing Workshop	3
CI 527	Literature in Classrooms K-8	3
CI 531	Facilitating Content Area Literacy Strategies	3
Lib 529	Young Adult Literature	3
Subtotal: 25		

SCHOOL COUNSELING LICENSING

The school counseling specialization has three options: track I, track II, and licensure only.

Track I & Track II

The school counseling specialization prepares individuals to work as counselors in school settings. Emphasis is placed on preparing school counselors to work with students to support them in the process of achieving academic, career, and personal/social success. Students who have a teaching license and two years teaching experience take 6 additional elective credits (Track I). Students who cannot document a teaching license and two years of teaching experience must complete a 6-credit, 200-hour Effective Teaching sequence to obtain licensure as a school counselor (see "Licensure") (Track II).

Licensure only

Students enrolled in the licensure only option must be graduates from an accredited master's program in counseling, psychology, or social work that required a clinical practicum focused on individual and group counseling skills. Graduate degrees in teaching or

education are not accepted. The program is designed to meet the requirements for the Initial School Counselor License approved by TSPC. Students must complete 33 credits in the school counseling core to be eligible for the Initial School Counselor license.

All students in the licensure only option must take the school counseling specialization core courses. The Teacher Standards and Practices Commission requires school counselors to have two years' experience as a licensed teacher in a public school setting. Individuals in need of the teaching requirement must take the six-credit, 200-clock-hour teaching experience sequence.

All students (track I, track II, and licensure only) are required to:

- Pass ORELA Protecting Student and Civil Rights in the Educational Environment test.
- Be fingerprinted and clear Oregon State Police and FBI background checks.
- Complete a school counseling action research or related project and professional portfolio documenting the knowledge, skills, and competencies required by TSPC.
- Complete a 600-clock-hour internship; internship includes placement in an early childhood/elementary and/or in a middle/high school setting.
- Have two years' teaching experience. Students without two years' teaching experience must complete a 200-hour teaching experience practicum in a year-long 6-credit course sequence.

Additional information about requirements and specific courses can be obtained from members of the Counselor Education faculty responsible for advising students in the school counseling specialization.

SPECIAL EDUCATION LICENSURE PROGRAMS

The PSU Graduate School of Education offers licensure and endorsement programs for:

- Persons seeking their special education initial Oregon teaching license.
- Persons seeking elementary education initial Oregon teaching license and an elementary special education endorsement through an integrated dual program.
- Persons seeking mid-level and/or secondary education initial Oregon teaching license in a content area and a secondary special education endorsement through an integrated dual program.
- Teachers who hold a valid Oregon teaching license in general education and wish to add the special education endorsement.

- Teachers who hold a valid Oregon teaching license in special education and wish to take advanced specialty coursework as part of their continuing professional development plan.
- Persons who wish to complete a Master of Arts (M.A.) or Master of Science (M.S.) degree in special education.

Dual endorsement options

The Special Education program offers a dual endorsement option in elementary education (general education licensure) and special education, referred to as the Inclusive Elementary Educators Program (IEEP). A Secondary Dual Endorsement Program (SDEP) is offered in mid-level high-school education and special education. Students who complete these programs receive two endorsements and their master's degree.

EXPERIENCE

In addition to a bachelor's degree, experience in education such as: early childhood special education, elementary, mid-level, or secondary teacher, instructional assistant, substitute teacher, or community experience is strongly recommended. Applicants without experience are encouraged to enroll in UnSt 421 or SpEd 460 Outdoor Ed/Recreation for a two-week summer camp experience at Mt. Hood Kiwanis Camp with students with disabilities to determine if they wish to pursue a career serving populations with special needs.

Learn more about special education programs on our web page for prospective students or attending one of our advising sessions.

PSU offers programs leading to state licensure and endorsements in the following areas:

- Special Educator Initial License or Endorsement for either elementary or secondary authorizations
- Visually Impaired Learner Initial License or Endorsement
- Early Intervention Special Education Initial License or Endorsement

SPECIAL EDUCATOR INITIAL LICENSE PROGRAM

The Special Educator licensure program prepares teachers to work with children and youth with a range of disabilities in either elementary or secondary settings. This is offered both full time (one year) and part time (two years).

For current prerequisites please see:
<http://www.pdx.edu/sped/prerequisites>

REQUIREMENTS

Courses		
SpEd 511	Foundations of Special Education	3
SpEd 515	Classroom Assessment, Instruction, and Behavior Management (Elementary)	4
SpEd 514	Legal and Ethical Foundations of Special Education	3
SpEd 509	Professional Introduction to the Start of the School Year	3
SpEd 522	Comprehensive Individualized Assessment and Curriculum 1	3
SpEd 537	Reading Assessment & Instruction (Elementary)	4
SpEd 548	Positive Behavior Support in the Classroom	3
SpEd 530	Families and Advocacy	3
SpEd 509	Professional Practices Seminar I	3
SpEd 523	Comprehensive Individualized Assessment and Curriculum II	3
SpEd 526	IEP and Collaborative Teaming	4
SpEd 512	Diagnostic Assessment	4
SpEd 538	Reading Assessment and Instruction (Secondary)	4
SpEd 533	Math Assessment and Instruction	3
SpEd 509	Professional Practices Seminar II	3
SpEd 525	Student Teaching	12
SpEd 510	Inclusive Practices	2
Subtotal: 64		

ADDED SPECIAL EDUCATOR ENDORSEMENT (ADDSPED)

The AddSPED endorsement program is designed especially for Oregon teachers with general education licenses at the elementary and/or middle/secondary grade levels that want to add a special education endorsement to their current non-provisional license. AddSPED is a four term full time or a six term part time program that is designed with working teachers in mind.

For current prerequisites, please see:
<http://www.pdx.edu/sped/addspedprerequisite-coursework>

REQUIREMENTS

Courses		
SpEd 514	Legal and Ethical Foundations of Special Education	3
SpEd 530	Families and Advocacy	3
SpEd 537	Reading Assessment & Instruction (Elementary)	4
SpEd 509	Professional Practices Practicum Seminar I	2

SpEd 548	Positive Behavior Support in the Classroom	3
SpEd 522	Comprehensive Individualized Assessment and Curriculum I	3
SpEd 512	Diagnostic Assessment	3-4
SpEd 523	Comprehensive Individualized Assessment and Curriculum II	3
SpEd 510	Inclusive Practices	2
SpEd 509	Professional Practices Practicum Sem II - 2	2
SpEd 526	IEP and Collaborative Teaming	4
SpEd 509	SpEd 509 Professional Practices Sem III - 2	2

Subtotal: 35

VISUALLY IMPAIRED LEARNER INITIAL LICENSE OR ENDORSEMENT PROGRAM

The Visually Impaired Learner Program provides an initial license or endorsement to work with students who have blindness or visual impairments. With an authorization of birth-21, students will achieve the competencies to deliver services in both public school and specialized school settings. The primary focus of the program is prepare candidates to teach within the expanded core curriculum and adapt the general education curriculum to insure accessibility for students.

REQUIREMENTS

Courses

SpEd 509	Practicum I	3
SpEd 509	Practicum II	3
SpEd 510	Legal and Ethical Foundations	3
SpEd 520	Collaboration I: Families and Community - EL and EI/SE	3
SpEd 548	Positive Behavior Support in the Classroom	3
SpEd 525	Student Teaching	6-15
SpEd 540	Foundations of Education for the Visually Impaired Learner	3
SpEd 541	Implications of Vision Problems of Children/Youth	3
SpEd 542	Assessment of the Visually Impaired	3
SpEd 543	Reading and Literacy - Visually Impaired Learners	3
SpEd 544	Methods of Teaching Academics: Visually Impaired Learner	3
SpEd 545	Introduction to Orientation and Mobility and Independent Living Skills	3
SpEd 546	Braille I	3

SpEd 547	Braille II	2
SpEd 575	Braille III/Technology for the Visually Impaired	3
SpEd 576	Visually Impaired Learner with Additional Disabilities	3

Subtotal: 56

Adding a VIL endorsement to a non-provisional teaching license may vary by state and type of current license held but is approximately 42-50 credits.

EARLY INTERVENTION SPECIAL EDUCATION INITIAL LICENSE OR ENDORSEMENT PROGRAM

The Early Intervention Special Education Program is designed to prepare professionals to provide services to infants, toddlers, and young children with special needs, and their families. Representative positions include teaching special education preschool classes or kindergarten; supporting children with special needs in community preschool and daycare settings; providing consultation to Head Start, Early Head Start, and preschool providers; providing consultation and support to families; working with young children and their families in their home; providing assessment and evaluation services; and providing service coordination.

For current prerequisites, for initial licenses only, please see: <http://www.pdx.edu/sped/prerequisite-coursework-eise>

REQUIREMENTS

Courses

CI 571	Play: Curriculum in Early Childhood Education	3
SpEd 507	Seminar: Student Teaching	1
SpEd 509	Prac I: Supervised Field Experience	3
SpEd 509	Prac II: Supervised Field Experience	3
SpEd 410/510	Inclusive Early Childhood Models	3
SpEd 579	Literacy in Early Intervention/Special Education	3
SpEd 520	Collaboration I: Families and Community - EL and EI/SE	3
SpEd 525	Student Teaching	6-15
SpEd 580	Introduction to Early Intervention/Early Childhood Special Education	3
SpEd 581	Family Guided Early Intervention	3
SpEd 582	Specialized Techniques: Early Intervention/Early Childhood Special Education	3

SpEd 583	Communication and Language Development: EI/SE (Early Intervention/Early Childhood Special Education)	3
SpEd 584	Assessment: EI/SE	3
SpEd 585	Instructional Strategies I: EI/SE	3
SpEd 586	Instructional Strategies II: EI/SE	3

Subtotal: 55

Adding an EI/SE endorsement to a non-provisional teaching license may vary by state but is approximately 21 credits.

CONTINUING EDUCATION GRADUATE SCHOOL OF EDUCATION

503-725-4670

The Cooperative Credit Program provides teachers, teachers-in-training, administrators, aspiring administrators, trainers, human services professionals, and other education professionals an opportunity to receive university credit for taking classes offered by our **partnering** or **"cooperative" agencies** (schools, school districts, nonprofits, companies, and others providers) for professional development for educators.

CENTERS

The Autism Training and Research Center

The Autism Training and Research Center provides training and consulting on evidence-based practices to educators and parents of individuals with autism spectrum disorders, and conducts research in areas that are important to educators and families of individuals with autism spectrum disorders.

The Center for Student Success

503-725-9519
centerforsuccess@pdx.edu
www.pdx.edu/ceed/success

The Center for Student Success provides technical and consulting services to local and regional schools, school districts, education service districts, and nonprofit organizations working to increase student success and to bridge the achievement gap. The Center's experienced staff and consultants provide a range of services including program and grant evaluations, charter school evaluations, and professional development design and implementation.

The Northwest Early Childhood Center for Education, Research, and Policy

The Northwest Early Childhood Center for Education, Research, and Policy (NWECC) is a collaboration of early childhood programs and centers which focus on education,

research, and policy to improve the lives of all young children (birth to age 8) and their families within the PSU, local, regional and national communities. The NWECC is committed to communities in which all young children and their families thrive.

The Oregon Center for Career Development in Childhood Care and Education (OCCD)

The Oregon Center for Career Development in Childhood Care and Education (OCCD) provides leadership in the development and operation of integrated and statewide professional development standards and systems. OCCD promotes professional development to achieve high quality care and education for children and youth, and creates and supports training and education.

See <http://www.pdx.edu/occd/>

The Research Center on Inclusive and Effective Educational Practices (RCIEP)

The Research Center on Inclusive and Effective Educational Practices (RCIEP) serves as a catalyst and provides support to special education faculty in the development and implementation of externally funded research that significantly impacts the quality and effectiveness of intervention and instruction provided to children and youth with a variety of educational challenges, to their families and to the schools and agencies that serve them.

MASEEH COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

Renjeng Su, Dean

James Hook, Associate Dean

Jean Cavanaugh, Assistant Dean for Finance & Administration

Suite 500, Engineering Building

www.pdx.edu/cecs/

- B.S.—Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Environmental Engineering and Mechanical Engineering
- Minor in Computer Science
- Minor in Electrical Engineering
- Minor in Environmental Engineering
- M.S.—Civil and Environmental Engineering, Computer Science, Electrical and Computer Engineering, Engineering and Technology Management, Mechanical Engineering, and Materials Science and Engineering
- M.Eng.—Civil and Environmental Engineering, Engineering and Technology Management (Option in Technology Management, Option in Project Management), Manufacturing Engineering, Mechanical Engineering
- Ph.D.—Civil and Environmental Engineering, Computer Science, Electrical and Computer Engineering, Mechanical Engineering, Technology Management
- Ph.D.—Participating college in Systems Science Doctoral Program
- Ph.D.—Participating college in Environmental Sciences and Resources Doctoral Program
- Graduate Certificates

Engineering and computer science offer the challenge and excitement of solving current and future technological problems in computers, electronics, energy, transportation, and the environment. Furthermore, national projections indicate that the need for engineers and computer scientists will increase significantly during the years ahead.

All undergraduate programs require a core of engineering or computer science, mathematics, science, and liberal arts courses. Graduate programs provide extended educational opportunities in various engineering and computer science specialties.

Undergraduate programs

At the undergraduate level, the student may select degree programs in civil engineering, computer engineering, environmental engineering, computer science, electrical engineering, and mechanical engineering. Cooperative educational programs with Portland-area industries, government agencies, and engineering consulting offices are available to qualified students.

The degree programs in civil engineering, computer engineering, electrical engineering, environmental engineering and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700. The computer science program is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Engineering and Computer Science's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Policy on admission to undergraduate programs

Students may declare engineering or computer science as their major at any time after enrolling at Portland State University. However, students must be admitted formally to a specific degree program in civil engineering, computer engineering, computer science, electrical engineering, environmental engineering or mechanical engineering before they will (1) be allowed to enroll in restricted upper-division courses offered by the program and (2) be graduated from that program. Students apply for formal department admission one to two terms before completing all eligibility requirements. Specific department application deadlines, criteria for admission and applications are available on respective department websites.

Students transferring from other institutions who want to be admitted formally to a specific engineering degree program (civil engineering, computer engineering, computer science, electrical engineering, environmental engineering, mechanical engineering) must:

- Meet all eligibility requirements.
- Apply for admission to PSU.
- Apply for program admission to the Maseeh College of Engineering and Computer Science.
- Have one copy of their transcripts sent to their engineering or computer science department.
- Have one copy of their transcripts sent to the Office of Admissions.

Transfer courses that are not evaluated by the Office of the Registrar or specified in other MCECS agreements as discrete numbered/direct equivalent courses will be evaluated by the department chair or their designee. In addition to the transcript, the student requesting the specific course equivalency may be asked to provide catalog descriptions and/or documents certifying course content. To ensure that the student is well prepared for the current curriculum, course equivalency will be evaluated against the content of the current course. Appeals of transfer course equivalence may be made to the MCECS Associate Dean.

Please see department websites for more specific admissions information.

Graduate programs

The Maseeh College offers graduate programs leading to the degrees of Master of Science, Master of Engineering, Master of Software Engineering, and Doctor of Philosophy.

Master's programs are available in civil and environmental engineering, computer science, software engineering, electrical and computer engineering, mechanical engineering, engineering & technology management, manufacturing engineering, materials science and engineering, and systems engineering.

Ph.D. programs are available in civil and environmental engineering, computer science, electrical and computer engineering, mechanical engineering, and technology management.

Graduate Certificates are also available in select departments.

Master of Software Engineering

Suite 120
Fourth Avenue Building

- M.S.E.—Master of Software Engineering
- Graduate Certificate in Software Engineering

Applications to the Master of Software Engineering and the Graduate Certificate in Software Engineering have been suspended pending a major curriculum revision.

Systems Engineering

- M.Eng.— Systems Engineering
- Graduate Certificate

Systems Engineering is the practice of creating the means of performing useful functions through the combination of two or more interacting elements. Systems engineering focuses on defining customer needs and required functionality early in the development cycle, documenting requirements, then continuing with design synthesis and system validation while considering the complete problem. Systems engineering integrates all the disciplines and specialty groups into a team effort, forming a structured development process that proceeds from concept to production to operation. Many of us already practice systems engineering, but call it something else: design or development of product, process, service. This course of study will enable the engineer to function in an interdisciplinary team and apply their area of engineering specialty toward the development of a product, process, or service.

ADMISSION REQUIREMENTS

Master of Engineering and Graduate Certificate

In addition to meeting general University admission requirements (p. 41), applicants to the program need a minimum of three years of professional experience, baccalaureate degree, and at least 2.50 GPA. Admission is based on program approval by the director of systems engineering and PSU Admissions office.

Civil and Environmental Engineering

Engineering Building
1930 SW 4th Ave., Suite 200
Email: ceedept@pdx.edu
Phone: 503-725-4282
Web: www.pdx.edu/cee

- B.S.— Civil Engineering
- B.S.— Environmental Engineering
- Minor in Environmental Engineering
- M.S.— Civil and Environmental Engineering
- M.Eng.— Civil and Environmental Engineering
- Ph.D.— Civil and Environmental Engineering
- Graduate Certificate in Transportation

- Graduate Certificate in Hydrology
- Graduate Certificate in Sustainability

Civil and environmental engineers plan, design, and manage the construction and operation of public and private infrastructure that are the foundation of our modern society including multimodal streets and highways, public transportation systems, water and wastewater distribution systems, energy systems, buildings, bridges, and dams. Civil engineers design structures such as buildings and bridges using concrete, steel, wood, masonry and composites. They are involved in predicting the quantity of water available for human use and in improving the quality of surface water, rivers, lakes, reservoirs, estuaries, and ground water systems. Civil engineers utilize fundamental understandings of rock and soil mechanics to design foundations, earth structures, and pavement subgrades. Finally, they are involved in understanding and improving air quality impacted by industrial, transportation and other pollution sources.

Undergraduate programs - Civil and Environmental Engineering

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Civil and Environmental Engineering's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

UPPER DIVISION PROGRAM ADMISSIONS REQUIREMENTS

ADMISSIONS ELIGIBILITY - BSCE

To be eligible for admission to the BSCE Upper Division (Junior/Senior) program, each student must meet the following minimum requirements:

1. Complete with a minimum grade of C the following courses:

Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Mth 261	Introduction to Linear Algebra	4
Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ph 221	General Physics (with Calculus) I	3

Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
EAS 211	Statics	4
EAS 212	Strength of Materials	4
EAS 215	Dynamics	4

Ph 211-Ph 213 are interchangeable with Ph 221-Ph 223.

2. Have a minimum GPA overall of 2.33.

3. Complete a minimum of 90 credits.

ADMISSIONS ELIGIBILITY - BSENVE

To be eligible for admission to the BSENVE Upper Division (Junior/Senior) Program, each student must meet the following minimum requirements:

1. Complete with a minimum grade of C the following courses:

Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Mth 261	Introduction to Linear Algebra	4
Bi 234	Elementary Microbiology	4
Bi 235	Microbiology Laboratory	2
Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ph 221	General Physics (with Calculus) I	3
Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
EAS 211	Statics	4
EAS 215	Dynamics	4

Ph 211-Ph 213 are interchangeable with Ph 221-Ph 223

2. Have a minimum GPA overall of 2.33.

3. Complete a minimum of 90 credits.

SELECTIVE ADMISSION REQUIREMENTS - BSCE AND BSENVE

For students applying for 300-level CEE course admission FALL 2019

Terms of Admission & Deadlines

- Fall admission only
- Application is online on the CEE website deadline is April 15, 2019
- If not a current PSU student, please apply first to PSU (<http://www.pdx.edu/admissions/>)

Minimum Requirements for Admission

- Complete (or have a plan to complete with spring and/or summer registrations) all required/shaded freshmen and sophomore classes on the Civil Engineering (CE) blue sheet/course plan or Environmental Engineering (ENVE) green sheet/course plan **prior** to the fall term of admission. Students may be admitted if they are missing one or more of the following courses:
 - CE students: CE 111, CE 112, CE 115, CE 211/CE 212, up to 2 general education courses.
 - ENVE students: CE 111, CE 112, CE 115, EAS 212, up to 2 general education courses.
- Earn a C or better letter grade in all required/shaded courses on the course plans. Note that Pass/No Pass grades are not accepted unless the graded option was not available at student's institution for the course.

Selective Admission Process

- All students who meet the minimum admission requirements will be considered.
- A Selective Admission GPA will be calculated using only the required/shaded courses indicated on each course plan. If a P/NP grade is accepted, it will not be used in the calculation. Repeated classes will be treated with standard PSU repeat/replace policy:

- If a student earned a D+ or below in a class the first time, then only the repeated (second) grade will be used in the Selective GPA calculation.
- If a student earned a C- or above in a class the first time, then both the first grade and the second (repeated) grade will be used in the Selective GPA calculation.
- Should a class be taken a third time it does not replace the second attempt regardless of either grade.
- Applicants with a Selective Admission GPA of 3.0 or above, and who are in progress to complete all required lower division courses by the fall admissions term, will be admitted. Remaining admission will be prioritized by the Selective admission GPA with the total number admitted based on available class and lab capacity.
- Preference will be given to those who will complete all lower division courses by fall term, and/or who have completed all or most of the required/shaded courses at PSU.
- Students with low Selective Admission GPAs may be offered or required to complete the CEE Summer Bridge class. If required, successful completion of the Summer Bridge may result in admission to the Upper Division program.
- Admission decisions will be communicated to the student by email. Decisions will be:
 - Admit
 - Admit, Recommend Summer Bridge Program
 - Defer, Require Summer Bridge Program
 - Defer, Wait for Spring or Summer Grades
 - Deny
- Denied students may request a meeting with the Department Chair to review the decision.

Continuation Criteria - BSCE and BSENVE

After admission to the Upper Division Program, students will be expected to make satisfactory progress toward their declared degree (BSCE or BSENVE).

Satisfactory progress is defined as:

- The term GPA in all courses taken at PSU must be 2.0 or higher.
- The student must complete 12 credits toward the degree in an academic year.

Students failing to meet (1) or (2) of the progress criteria will be placed on probation.

Students will be suspended from the degree program if:

- The student is placed on probation for two consecutive terms or for a total of three terms.
- The student has not enrolled in an engineering course for three consecutive terms.

Students who are suspended will not be allowed to take courses in Civil Engineering for one term following suspension. Students who wish to be readmitted to the program need to schedule and attend an advising session with the Department Chair. If readmitted, the suspended student will be given clear continuation criteria that may exceed the pre-suspension satisfactory progress (continuation criteria) listed above. Failure to meet the revised continuation criteria following the first suspension will result in permanent suspension from the academic program.

Appeals

Students may appeal department admission decisions or department continuation criteria decisions by submitting a petition to the Department Chair. The Chair's decision can be appealed to the Civil and Environmental Engineering Department's Appeal's Committee. The committee will review the appeal and communicate a written decision to the Department Chair and student. The Department Appeal's Committee decision can be appealed to the Associate Dean of MCECS (info@cecs.pdx.edu).

SELECTIVE ADMISSION REQUIREMENTS - BSCE AND BSENVE

For students applying for 300-level CEE course admission FALL 2019

Terms of Admission & Deadlines

- Fall admission only
- Application is online on the CEE website deadline is April 15, 2019
- If not a current PSU student, please apply first to PSU (<http://www.pdx.edu/admissions/>)

Minimum Requirements for Admission

- Complete (or have a plan to complete with spring and/or summer registrations) all required/shaded freshmen and sophomore classes on the Civil

Engineering (CE) blue sheet/course plan or Environmental Engineering (ENVE) green sheet/course plan **prior** to the fall term of admission. Students may be admitted if they are missing one or more of the following courses:

- CE students: CE 111, CE 112, CE 115, CE 211/CE 212, up to 2 general education courses.
- ENVE students: CE 111, CE 112, CE 115, EAS 212, up to 2 general education courses.
- Earn a C or better letter grade in all required/shaded courses on the course plans. Note that Pass/No Pass grades are not accepted unless the graded option was not available at student's institution for the course.

Selective Admission Process

- All students who meet the minimum admission requirements will be considered.
- A Selective Admission GPA will be calculated using only the required/shaded courses indicated on each course plan. If a P/NP grade is accepted, it will not be used in the calculation. Repeated classes will be treated with standard PSU repeat/replace policy:
 - If a student earned a D+ or below in a class the first time, then only the repeated (second) grade will be used in the Selective GPA calculation.
 - If a student earned a C- or above in a class the first time, then both the first grade and the second (repeated) grade will be used in the Selective GPA calculation.
 - Should a class be taken a third time it does not replace the second attempt regardless of either grade.
- Applicants with a Selective Admission GPA of 3.0 or above, and who are in progress to complete all required lower division courses by the fall admissions term, will be admitted. Remaining admission will be prioritized by the Selective admission GPA with the total number admitted based on available class and lab capacity.
- Preference will be given to those who will complete all lower division courses by fall term, and/or who have completed all or most of the required/shaded courses at PSU.
- Students with low Selective Admission GPAs may be offered or required to complete the CEE Summer Bridge class. If required, successful completion of the Summer Bridge may result in admission to the Upper Division program.
- Admission decisions will be communicated to the student by email. Decisions will be:

- Admit
- Admit, Recommend Summer Bridge Program
- Defer, Require Summer Bridge Program
- Defer, Wait for Spring or Summer Grades
- Deny
- Denied students may request a meeting with the Department Chair to review the decision.

Continuation Criteria - BSCE and BSENVE

After admission to the Upper Division Program, students will be expected to make satisfactory progress toward their declared degree (BSCE or BSENVE).

Satisfactory progress is defined as:

- The term GPA in all courses taken at PSU must be 2.0 or higher.
- The student must complete 12 credits toward the degree in an academic year.

Students failing to meet (1) or (2) of the progress criteria will be placed on probation.

Students will be suspended from the degree program if:

- The student is placed on probation for two consecutive terms or for a total of three terms.
- The student has not enrolled in an engineering course for three consecutive terms.

Students who are suspended will not be allowed to take courses in Civil Engineering for one term following suspension. Students who wish to be readmitted to the program need to schedule and attend an advising session with the Department Chair. If readmitted, the suspended student will be given clear continuation criteria that may exceed the pre-suspension satisfactory progress (continuation criteria) listed above. Failure to meet the revised continuation criteria following the first suspension will result in permanent suspension from the academic program.

Appeals

Students may appeal department admission decisions or department continuation criteria decisions by submitting a petition to the Department Chair. The Chair's decision can be appealed to the Civil and Environmental Engineering

Department's Appeal's Committee. The committee will review the appeal and communicate a written decision to the Department Chair and student. The Department Appeal's Committee decision can be appealed to the Associate Dean of MCECS (info@cecs.pdx.edu).

CIVIL ENGINEERING B.S. (BSCE)

The BSCE degree includes required courses in the analysis and design of structures, applied hydraulics, surveying, soil mechanics and foundations, engineering project management, transportation engineering and environmental/water resources engineering.

Students often choose a specialty area in their senior year: structural analysis and design, environmental engineering, water resources, transportation engineering or geotechnical engineering. Students are encouraged to speak with faculty members in specialty areas to find out more about these fields.

ABET, 415 North Charles Street, Baltimore, MD 21201—telephone: 410-347-7700. This national organization sets standards for engineering education defined in terms of curricular content, quality of faculty, and adequacy of facilities.

BSCE Program Educational Objectives

Educational objectives describe the “career and professional accomplishments that the program is preparing graduates to achieve” (ABET, 2010) within a few years of their graduation.

The program educational objectives of the Civil Engineering program at Portland State University are:

Graduates are expected to practice civil engineering responsibly and ethically by (1) working effectively in the professional engineering community and (2) continuing to learn and enhance their abilities in civil engineering.

BSCE Student Outcomes

Graduates of the Civil Engineering program at Portland State University will have the skills and abilities to prepare them to begin professional practice or to succeed in graduate studies.

Graduates will have:

- (A) An ability to apply principles of mathematics, science, and engineering to the analysis and design of civil engineering projects.

- (B) An ability to design and conduct experiments, as well as to analyze and interpret data.
- (C) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
- (D) An ability to participate in projects that cross disciplines and to function on multi-disciplinary teams.
- (E) An ability to identify, formulate, and solve engineering problems.
- (F) An understanding of the professional and ethical responsibility of engineers in a broad societal context.
- (G) An ability to communicate effectively.
- (H) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
- (I) A recognition of the need for, and an ability to engage in continuing professional development and life-long learning.
- (J) Knowledge of relevant contemporary issues.
- (K) An ability to use the modern techniques, skills, and engineering tools necessary for engineering practice.
- (L) An ability to apply knowledge in the following civil engineering discipline areas: structural, geotechnical, environmental/water resources, and transportation.
- (M) An awareness of the need for professional registration in career development.

REQUIREMENTS

BSCE majors must complete all University (p. 32) and department degree requirements:

1. Freshmen and sophomore math, science, and engineering courses must be completed with a minimum grade of C;
2. Junior and senior engineering and science courses, and EC 314U must be completed with a minimum grade of C-;
3. Prerequisite courses must be passed with the minimum grade ("C" for 100 and 200 level courses, "C-" for 300 and 400 level courses) or better in order to move ahead in the sequence;
4. The student's cumulative PSU GPA must be 2.33 or higher to graduate from the BSCE program;
5. Any deviation from the required courses including engineering and mathematics substitutions must be approved in writing by the Department Chair.

Transfer students should follow the information found on the MCECS Transfer

Page: <https://www.pdx.edu/cecs/transferring-credits>

Freshman Year

CE 111	Introduction to Civil and Environmental Engineering	3
CE 112	Civil and Environmental Engineering Computations	3
CE 115	Civil Engineering Drawing and Spatial Analysis	3
Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 261	Introduction to Linear Algebra	4
	Freshman Inquiry	15

Subtotal: 46

Sophomore Year

EAS 211	Statics	4
EAS 212	Strength of Materials	4
EAS 215	Dynamics	4
CE 211	Plane Surveying and Mapping	3
CE 212	Field Problems in Plane Surveying	1
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Ph 221	General Physics (with Calculus) I	3
Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
	Sophomore Inquiry	12

Subtotal: 48

Junior Year

CE 315	The Civil and Environmental Engineering Profession	1
CE 321	CEE Properties of Materials	4
CE 361	Fluid Mechanics	4
CE 324	Elementary Structural Analysis	4
CE 325	Indeterminate Structures	4
CE 341	Soil Classification and Properties	4

CE 351	Introduction to Transportation Engineering	4
CE 362	Engineering Hydraulics	4
CE 364	Water Resources Engineering	4
CE 371	Environmental Engineering	4
G 301	Geology for Engineers	3
Stat 451	Applied Statistics for Engineers and Scientists I	4
Ec 314U	Private and Public Investment Analysis	4

Subtotal: 48

Ec 314U is a required course that can be taken as a part of some upper-division clusters.

Senior Year

CE 444	Geotechnical Design	4
CE 454	Urban Transportation Systems	4
CE 484	Civil & Environmental Engineering Project Management and Design I	
CE 494	Civil & Environmental Engineering Project Management and Design II	3
CE 432	Structural Steel Design	4
	or	
CE 434	Principles of Reinforced Concrete	4
	Approved civil engineering electives	19
	Upper-division cluster	8

Subtotal: 45**Approved Civil Engineering Electives:**

CE 401	Research	1-6
CE 403	Honors Thesis	1-4
CE 404	Cooperative Education/Internship	1-12
CE 405	Reading and Conference	1-6
CE 406	Special Projects	1-6
CE 407	Seminar	1-6
CE 410-499		
CE 510-599		

CE 401 – CE 406: 4 credits recommended maximum; additional credits require Department Chair approval.

CE 407/CE 507: 3 credits recommended maximum; additional credits require Department Chair approval.
Subtotal: 187

Students may take one course outside the CEE Department to apply toward senior electives. Approved non-CE courses are ME 321 (p. **Error! Bookmark not defined.**), ME 455 (p. **Error! Bookmark not defined.**), G 424 (p. **Error! Bookmark not defined.**), Geog 488 (p. **Error! Bookmark not defined.**), and Geog 492 (p. **Error! Bookmark not defined.**). Additional non-CE classes

require prior approval of the CEE Department; requests should be sent to ceedept@pdx.edu prior to the start of the term.

ENVIRONMENTAL ENGINEERING B.S.(BSENVE)

The BSENVE program provides training for engineers to preserve the natural environment – an especially important part of our culture in Portland and in the state of Oregon. Oregon prides itself on its environmental commitments and efforts toward living sustainably. This degree focuses on the fundamentals of environmental and water resources engineering with elective courses in geo-environmental, surface water hydrology and remote sensing, surface and groundwater water quality, groundwater hydrology, and air quality. Many of the required courses in the program are interdisciplinary drawing from the Departments of Chemistry, Mathematics and Statistics, Physics, Geology and Biology.

The BSENVE curriculum at Portland State University is accredited by the Engineering Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21201 – telephone: 410-347-7700. This national organization sets standards for curricular content, quality of faculty, and adequacy of facilities

BSENVE Program Educational Objectives

Educational objectives describe the “career and professional accomplishments that the program is preparing graduates to achieve” (ABET, 2010) within a few years of their graduation.

The program educational objectives of the Environmental Engineering program at Portland State University are as follows:

Graduates are expected to practice environmental engineering responsibly and ethically by (1) working effectively in the professional engineering community and (2) continuing to learn and enhance their abilities in environmental engineering.

BSENVE Student Outcomes

Graduates of the Environmental Engineering program will have the skills and abilities to prepare them to begin professional practice or to succeed in graduate studies.

Graduates will have:

- (A) An ability to apply principles of mathematics, science, and engineering to the analysis and design of environmental engineering projects.
- (B) An ability to design and conduct experiments, as well as to analyze and interpret data.
- (C) An ability to design a system, component, or process to meet desired needs within realistic constraints such as

- economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
- (D) An ability to participate in projects that cross disciplines and to function on multi-disciplinary teams.
- (E) An ability to identify, formulate, and solve engineering problems.
- (F) An understanding of the professional and ethical responsibility of engineers in a broad societal context.
- (G) An ability to communicate effectively.
- (H) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
- (I) A recognition of the need for, and an ability to engage in continuing professional development and life-long learning.
- (J) Knowledge of relevant contemporary issues.
- (K) An ability to use the modern techniques, skills, and engineering tools necessary for engineering practice.
- (L) An awareness of the need for professional registration in career development.

REQUIREMENTS

BSENVE majors must complete the following University (p. 32) and department degree requirements for their engineering coursework.

1. Freshmen and sophomore math, science, and engineering courses must be completed with a minimum grade of C;
2. Junior and senior engineering and science courses, and EC 314U must be completed with a minimum grade of C-;
3. Prerequisite courses must be passed with the minimum grade ("C" for 100 and 200 level courses, "C-" for 300 and 400 level courses) or better in order to move ahead in the sequence;
4. The student's cumulative PSU GPA must be 2.33 or higher to graduate from the BSENVE program;
5. Any deviation from the required courses including engineering and mathematics substitutions must be approved in writing by the Department Chair.

Transfer students should follow the information found on the MCECS Transfer
Site: <https://www.pdx.edu/cecs/transferring-credits>

Freshman Year

CE 111	Introduction to Civil and Environmental Engineering	3
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CE 112	Civil and Environmental Engineering Computations	3
CE 115	Civil Engineering Drawing and Spatial Analysis	3
Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Bi 234	Elementary Microbiology	4
Bi 235	Microbiology Laboratory	2
	Freshman Inquiry	15

Subtotal: 48

Sophomore Year

EAS 211	Statics	4
EAS 212	Strength of Materials	4
EAS 215	Dynamics	4
Mth 261	Introduction to Linear Algebra	4
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Ph 221	General Physics (with Calculus) I	3
Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
	Sophomore Inquiry	12

Subtotal: 48

Junior Year

ME 321	Engineering Thermodynamics I	4
CE 315	The Civil and Environmental Engineering Profession	1
CE 345	Environmental Soil Mechanics	2
CE 361	Fluid Mechanics	4
CE 362	Engineering Hydraulics	4
CE 364	Water Resources Engineering	4
CE 371	Environmental Engineering	4
CE 412	Sustainability in Civil & Environmental Engineering Seminar	1
EnvE 365	Physical Environmental Processes	2
EnvE 366	Analytical Methods in Environmental Engineering	2
EnvE 368	Physical Environmental Process Lab	2

EnvE 369	Analytical Methods in Environmental Engineering Lab	2
EnvE 370	Sampling, Analysis and Risk Assessment for Environmental Engineering Lab	2
G 301	Geology for Engineers	3
Stat 451	Applied Statistics for Engineers and Scientists I	4
		Subtotal: 45
Senior Year		
CE 474	Unit Operations of Environmental Engineering	4
CE 480	Chemistry of Environmental Toxins	4
CE 484	Civil & Environmental Engineering Project Management and Design I	
CE 494	Civil & Environmental Engineering Project Management and Design II	3
Ec 314U	Private and Public Investment Analysis	4
	Upper-division cluster	8
	Approved Environmental Engineering Electives	24
		Subtotal: 46

Ec 314U is a required course that can be taken as a part of some upper-division clusters.

Electives: see below.

Approved Environmental Engineering Electives:

There are approved electives in geo-environmental engineering, surface water quality, surface hydrology and hydraulics, subsurface hydrology and contaminant transport, and air quality. 24 credits of technical electives are required to complete the BSENE degree; a variety of the classes listed below are available each academic year.

CE 445	Geo-environmental Engineering with Geosynthetics	2
CE 479/ESM 479	Fate and Transport of Toxics in the Environment	4
CE 480	Chemistry of Environmental Toxins	4
CE 481	The Columbia River as a System	2
CE 482	Introduction to Sediment Transport	4
CE 483	Estuarine Circulation	4
CE 469	Subsurface Hydrology	4
CE 485	Environmental Cleanup and Restoration	4

CE 486/Ch 486	Environmental Chemistry	4
CE 487/Ch 487	Aquatic Chemistry	4
CE 488/ESM 460	Air Quality	4
CE 489	Introduction to Advanced Environmental Fluid Mechanics	4
CE 490	Soil and Groundwater Restoration	4
CE 565	Watershed Hydrology	4
CE 566/ESM 566	Environmental Data Analysis	4
CE 568	Advanced Methods in Hydrologic System Analysis	4
CE 571/CE 671	Subsurface Contaminant Transport	4
CE 572	Environmental Fluid Mechanical Transport	4
CE 573	Numerical Methods in Environmental and Water Resources Engineering	4
CE 576	Environmental Fluid Mechanics	4
CE 578	Water Quality Modeling	4

BSENE Students are also allowed to take one of the following courses for elective credit: Ph 375U (p. **Error! Bookmark not defined.**), Ph 471 (p. **Error! Bookmark not defined.**), Ph 477 (p. **Error! Bookmark not defined.**), G 424 (p. **Error! Bookmark not defined.**), Geog 488 (p. **Error! Bookmark not defined.**), or Geog 492 (p. **Error! Bookmark not defined.**). Additional elective classes outside of the CE subject area require prior approval from the CEE Department; requests should be sent to ceedpt@pdx.edu prior to the start of the term.
Subtotal: 187

ENVIRONMENTAL ENGINEERING MINOR

Preparatory Prerequisite Courses

These courses are required preparation for the Environmental Engineering Minor required courses, but are not part of the stated minor. Please meet with an Engineering Advisor for course planning support.

Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 261	Introduction to Linear Algebra	4
EAS 211	Statics	4
EAS 215	Dynamics	4

Subtotal: 20

REQUIREMENTS

A student wishing to minor in environmental engineering must complete the following courses with a minimum grade of C and a minimum GPA of 2.33:

Courses

Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Ph 221	General Physics (with Calculus) I	3
Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
CE 361	Fluid Mechanics	4
CE 362	Engineering Hydraulics	4
CE 364	Water Resources Engineering	4
CE 371	Environmental Engineering	4
CE 474	Unit Operations of Environmental Engineering	4

Subtotal: 54

and a minimum of 4 credits of approved electives. All courses must be taken for letter grade and at least one-third of the credit hours must be taken at Portland State University.
Subtotal: 54

Course requirements for the minor also meet partial eligibility requirements for admission to the BSCE or BSENVE programs. Students who complete the requirements for the minor may wish to apply for admission to these programs. BSCE and BSENVE students cannot minor in environmental engineering. Students can schedule a meeting with an Engineering Advisor by calling 503.725.4631.

HONORS PROGRAM - BSCE AND BSENVE

The Civil and Environmental Engineering Honors Program gives highly-motivated engineering students the chance to develop undergraduate degree programs that reflect their particular interests – many of these students go on to graduate school. Working closely with a CEE faculty advisor, Honors Program students choose a research area

and complete an Honors thesis, usually during their senior year.

Honors Program Admissions Requirements:

- Submit CEE Honors Program application form found on the CEE website (www.pdx.edu/cee);
- Completion of a minimum of 90 credit hours;
- Completion of courses required for admission to the BSCE or BSENVE programs;
- Minimum PSU GPA of 3.50

Interested students should apply by spring quarter of the junior year but no later than the beginning of his/her senior year.

Upon acceptance into the Honors Program, the student will declare one of the following areas of interest within CEE for his/her research topic: Environmental/Water Resources, Geotechnical, Structural, or Transportation. The CEE Chair, in consultation with faculty, will assign the student an Honors advisor. The advisor will work with the student to complete a written proposal for the Honors thesis research. Honors thesis will follow ASCE document guidelines for style and formatting. CEE students who meet Honors Program requirements will graduate with Honors and will receive special recognition on their diploma.

Honors Program Graduation Requirements:

- Completion of a written honors thesis in conjunction with a faculty adviser with a minimum grade of B+
- Presentation of research to CEE faculty/students in seminar format
- PSU GPA above 3.50

Note: The Honors thesis will count as a BSCE or BSENVE elective in the senior year: CE 403, Honors Thesis, 4 credit hours. Students in the University Honors Program can substitute HON 403 for CE 403 credits, and apply the thesis credits to both the University Honors Program requirements, as well as the CE or ENVE engineering elective requirements. Students working in both programs should schedule advising sessions with both the University Honors Program and the CEE Department early to ensure correct course planning for those two programs.

Graduate programs - Civil and Environmental Engineering

ADMISSION REQUIREMENTS

MS and MEng

Admission requirements for the MS and MEng degrees include a bachelor's degree in an engineering field, science, or closely related area with a minimum GPA of 3.00.

Courses should include calculus through differential equations, physics and chemistry, and all the necessary prerequisites for the graduate courses that comprise the student's program of study. Applicants without these qualifications may be considered for conditional admission. To be considered for admission as a conditional student, the applicant must have a minimum GPA of 2.75. Applicants must also meet PSU graduate admission requirements. Please refer to Graduate Studies for these requirements. Application instructions for the MS and MEng programs are available at www.pdx.edu/cee/graduate-programs.

PhD

Admission requirements for the PhD program include a MS degree in an engineering field, science, or closely related area. All applicants must contact a CEE faculty member prior to submitting an application seeking a PhD advisor. For admission, a student must have a CEE faculty member agree to be his/her PhD advisor. Applicants must also meet PSU graduate admission requirements. Please refer to Graduate Studies for these requirements. Application instructions for the PhD program are available at www.pdx.edu/cee/graduate-programs.

CIVIL AND ENVIRONMENTAL ENGINEERING MS

The Master of Science in Civil and Environmental Engineering program is designed to provide students with the technical and professional knowledge necessary to develop their abilities to seek creative solutions to complex problems in their field of interest. The program involves advanced courses in the areas of structural analysis and design, transportation engineering, water resources, environmental engineering, and geotechnical engineering, as well as science and mathematics. Flexibility is achieved by designing programs of study to meet individual needs. MS students must complete a thesis or research project conducted under the supervision of a faculty member. Please see the Degree Requirements section for full details.

Application Deadlines - MS

- Priority Fall - First Monday of January (for strongest consideration for funding as a Graduate Research or Teaching Assistant)
- Fall - April 1
- Winter - September 1
- Spring - November 1

Degree Requirements - MS

MS students are required to complete tentative degree plans after completing 18 credits. The degree plan must be approved by their advisor. An MS study plan form for this purpose is available on the CEE website (www.pdx.edu/cee). Coursework taken without advisor approval may not be accepted as part of the student's program. Students must also meet the University master's degree requirements.

The MS program consists of two options:

- The thesis option consists of a total of 45 credit hours including 6-9 hours of CE 503 Thesis credits plus successful completion of a final oral examination covering the thesis. Coursework may include up to 6 hours of CE 501 Research, CE 504 Internship, CE 505 Reading and Conference, or CE 506 Projects;
- The project option requires completion of 45 credit hours including 4 CE 501 Research credit hours on a research project that produces a report and technical presentation. Coursework may include up to 8 hours of CE 504 Internship, CE 505 Reading and Conference, or CE 506 Projects.

Internship credits (CE 504) require a project and final report; these credits must be arranged in advance between the CEE faculty advisor and the student.

Student research is conducted under the supervision of faculty. Please see CEE faculty profiles on the CEE website (www.pdx.edu/cee) to learn about current faculty research areas.

CEE courses for which the student receives a grade of "C+" or lower will not be counted toward fulfilling the requirements. Grades of C+, C, or C- may sometimes be counted toward the degree with the approval of the student's advisor and the Graduate Program Chair.

All courses taken in the Department of Civil and Environmental Engineering by degree candidates must be taken for a letter grade, unless a course is only offered with a pass/no pass option. Courses outside the Department of Civil and Environmental Engineering may be taken pass/no pass only with the consent of the student's advisor. Non-degree seeking students may take Civil and Environmental Engineering courses pass/no pass with the consent of the instructor.

In both options, a minimum of 30 credit hours must be taken in the CEE Department unless otherwise approved by the Graduate Program Chair. To become a candidate for the MS degree, the student must successfully complete all departmental requirements for one of the options described above.

Departmental policies and other helpful information for graduate students can be found in the Department's Graduate Handbook, located on the CEE website (www.pdx.edu/cee). All other degree requirements for the MS program are established by PSU's Office of Graduate

Studies. Please refer to Graduate Studies for information concerning advanced degree requirements, degree status, petition processes, thesis preparation, and final oral exam.

CIVIL AND ENVIRONMENTAL ENGINEERING MENG

The Master of Engineering in Civil and Environmental Engineering program is a non-research based professional degree. MEng students may be full-time or part-time while working in the engineering field. These students complete an advanced degree without a thesis/project requirement and can also use internship credits toward their degree. Please see the Degree Requirements section below for full details.

MEng students are required to complete tentative degree plans after completing 18 credits. The degree plan must be approved by their advisor. An MEng study plan form for this purpose is available on the CEE website (www.pdx.edu/cee/graduate-programs). Coursework taken without advisor approval may not be accepted as part of the student's program. Students must also meet the University master's degree requirements.

Application Deadlines - MEng

- Fall - April 1
- Winter - September 1
- Spring - November 1

Degree Requirements - MEng

A total of 48 graduate credits are required for the MEng program. Coursework may include up to 8 hours of CE 501 Research, CE 504 Internship, CE 505 Reading and Conference, or CE 506 Projects.

Internship credits (CE 504) require a project and final report; these credits must be arranged in advance between the CEE faculty advisor and the student.

CEE courses for which the student receives a grade of "C+" or lower will not be counted toward fulfilling the requirements. Grades of C+, C, or C- may sometimes be counted toward the degree with the approval of the student's advisor and the Graduate Program Chair.

All courses taken in the Department of Civil and Environmental Engineering by degree candidates must be taken for a letter grade, unless a course is only offered with a pass/no pass option. Courses outside the Department of Civil and Environmental Engineering may be taken pass/no pass only with the consent of the student's adviser. Non-degree seeking students may take Civil and

Environmental Engineering courses pass/no pass with the consent of the instructor.

A minimum of 30 credit hours must be taken in the CEE Department unless otherwise approved by the Graduate Program Chair. To become a candidate for the MEng degree, the student must successfully complete all departmental requirements as described above.

Departmental policies and other helpful information for graduate students can be found in the Department's Graduate Handbook, located on the CEE website (www.pdx.edu/cee). All other degree requirements for the MEng program are established by PSU's Office of Graduate Studies. Please refer to Graduate Studies for information concerning advanced degree requirements, degree status, and petition processes.

CIVIL AND ENVIRONMENTAL ENGINEERING PHD

The PhD in Civil and Environmental Engineering program offers advanced courses in the areas of structural analysis and design, water resources and environmental engineering, transportation engineering, and geotechnical engineering. This program aims to educate technical experts to meet challenges related to enhancing infrastructure and the environment. Students learn about conducting research and solving technical problems that have an impact both regionally and globally. The PhD program culminates in a written dissertation representing an original contribution to knowledge in the field, significantly enlarging, modifying or reinterpreting what was previously known. Students work closely with their advisor, but PhD research is an original, independent investigation of the chosen research topic.

Application Deadlines - PhD

- Priority Fall - First Monday of January (for strongest consideration for funding as a Graduate Research or Teaching Assistant)
- Fall - April 1
- Winter - September 1
- Spring - November 1

Degree Requirements - PhD

A PhD student must complete the following departmental requirements:

1. Complete a minimum of 51 credits (including coursework and dissertation credits) beyond the M.S. degree;
2. Complete an approved program of study, which includes a minimum of 24 hours coursework. Coursework may include up to 8 hours of CE 601

Research, CE 604 Internship, CE 605 Reading and Conference, or CE 606 Projects;

3. Meet the University's residency requirement;
4. Pass the comprehensive examination;
5. Present and pass a proposal defense for advancement to candidacy;
6. Complete 27 credit hours of dissertation credit (CE 603) leading to the completion of a doctoral dissertation;
7. Present and pass the final oral dissertation defense; and
8. Submit the written dissertation in compliance with University guidelines and deadlines.

Internship credits (CE 604) require a project and final report; these credits must be arranged in advance between the CEE faculty advisor and the student. CEE courses for which the student receives a grade of "C+" or lower will not be counted toward fulfilling the requirements. Grades of C+, C, or C- may sometimes be counted toward the degree with the approval of the student's advisor and the Graduate Program Chair.

All courses taken in the Department of Civil and Environmental Engineering by degree candidates must be taken for a letter grade, unless a course is only offered with a pass/no pass option. Courses outside the Department of Civil and Environmental Engineering may be taken pass/no pass only with the consent of the student's advisor. Non-degree seeking students may take Civil and Environmental Engineering courses pass/no pass with the consent of the instructor.

Departmental policies and other helpful information for graduate students can be found in the Department's Graduate Handbook, located on the CEE website (www.pdx.edu/cee). All other degree requirements for the PhD program are established by PSU's Office of Graduate Studies. Please refer to Graduate Studies for the university's doctoral degree requirements.

HYDROLOGY GRADUATE CERTIFICATE

The Graduate Certificate of Hydrology is designed to give students advanced training in hydrology, and leads to professional certification with the American Institute of Hydrology (AIH). More information about the certificate can be found at www.pdx.edu/esm/hydrology-certificate.

SUSTAINABILITY GRADUATE CERTIFICATE

The Graduate Certificate in Sustainability offers an integrated series of post-baccalaureate courses that allow students to deeply explore and understand the three spheres

of sustainability: social, economic, and environmental. The courses cover theory as well as practice, providing experience analyzing real-world approaches and solutions. Courses can be taken by students admitted solely to the certificate program or concurrently enrolled in masters and doctoral programs at PSU. The certificate is administered by the Institute for Sustainable Solutions. More information about the certificate and application procedures can be found at www.pdx.edu/sustainability/graduate-certificate-in-sustainability.

TRANSPORTATION GRADUATE CERTIFICATE

The Graduate Certificate in Transportation is a 21 credit hour program designed to build the technical and analytical knowledge of those who are in or wish to enter the transportation field. This program could be completed in a single year on a full-time basis or over two years on a part-time basis. The certificate includes courses from the Toulon School of Urban Studies and Planning and the Department of Civil and Environmental Engineering. Credits taken as part of this certificate program may be used to satisfy partial M.S. degree requirements in either program. Admission to this program will require an undergraduate degree at an accredited university and a GPA that meets university admission requirements. More information about the certificate and application procedures can be found at <https://www.pdx.edu/usp/graduate-certificate-in-transportation>.

Computer Science

120 Fourth Avenue Building
503-725-4036
www.pdx.edu/computer-science/

- B.S.—Computer Science
- Minor in Computer Science
- M.S.—Computer Science
- Ph.D.—Computer Science
- Graduate Certificate in Computer Security

Undergraduate program

The computer science program is designed to provide students with the educational background required for a professional career in the computing industry and for further study at the graduate level. The program includes a core of required courses and an elective program of courses over a wide range of topics. Seniors work in teams to carry out community-based projects during the two-term capstone course in software engineering.

The computer science curriculum at Portland State University is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - Telephone: (410) 347-7700. This national organization sets standards for computer science education defined in terms of curricular content, quality of faculty, and adequacy of facilities.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Computer Science's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

PROGRAM OBJECTIVES

The objectives of the undergraduate program in computer science are to produce graduates with:

- a thorough understanding of and ability to apply the core principles and practices of computing;
- the professional skills to meet the immediate needs of regional and other employers, while being able to adapt to rapidly changing technology;
- a foundation in the supporting areas of communication, science, and mathematics;
- an understanding of ethical responsibilities in the social context in which their contributions occur;
- the motivation and preparation to engage in life-long learning, including entering advanced degree programs in computer science.

ADMISSION REQUIREMENTS

Students who are intending to graduate with an undergraduate degree in computer science must be admitted to Portland State University and file the Application to the Computer Science Program with the Department of Computer Science after completing the lower-division requirements. Students with questions should contact the Computer Science Department. No more than 8 upper-division computer science credits (including any approved upper-division transfer credits) taken prior to admission to the program will be counted toward the student's departmental requirement of 52 upper-division computer science credits (CS 300, CS 305, CS 320, CS 333, CS 350, CS 486, CS 469, CS 470 and 24 credits of upper-division computer science electives). Students also must be in admitted status during the term they intend to graduate.

CS Admission Requirements

Applies to students pursuing a B.S. in Computer Science wishing to enroll in upper-division CS courses for

Fall 2019 and Winter 2020

Terms of Admission & Deadlines

- Fall and winter terms of admission only. Fall admission is preferred.
- Application deadline for fall is April 15, for winter October 15.
- Application is a fillable pdf on CS website: <https://www.pdx.edu/computer-science/undergraduate-programs>.

A detailed four year course plan is included in the "Computer Science Blue Sheet", also available from the above website.

Minimum Eligibility for Consideration

- All shaded/required courses on the blue sheet /course plan must be completed by the end of Spring term for Fall Admission and by the end of Fall term for Winter Admission. Students may be conditionally admitted if some of these courses are in progress at the time of application.
- Each shaded CS course on the blue sheet /course plan must be completed with a grade of C or above. The Cumulative All Attempts GPA in shaded/required CS courses must be at least 2.0. Each shaded non-CS course on the blue sheet /course plan must be completed with a grade of C- or above.
- Successful completion of the Programming Proficiency Demonstration.
- Complete Freshman Inquiry; or Wr 121 and Comm 220 (for students transferring 30 or more credits to PSU) prior to admission.

Admission

- Admission is competitive and enrollment is limited by resources. Students eligible for admission with an All Attempts CS GPA of 3.0 or higher are guaranteed admission. Based on the number of remaining slots, students will be selected from the pool of admission-eligible students that have not achieved an All Attempts CS GPA of 3.0 by the CS Undergraduate Committee.

Repeated Classes

- If a required CS class is repeated, all attempts are counted in the cumulative grade calculation that will be used for admission purposes (All Attempts CS GPA).

Required classes

- All required/shaded courses indicated on the blue sheet /course plan must be completed by the end of Spring term for Fall Admission and by the end of Fall term for Winter Admission.
- Students may be conditionally admitted if some of these courses are in progress at the time of application.
- If courses in progress are not completed with a C or higher, admission will be revoked and students withdrawn from upper division CS courses.

Additional testing/bridge classes

- Proficiency testing is required of students who did not complete and pass CS 202 at PSU.
- No bridge class required.

Pass/No Pass

- All required classes must be taken for a grade (not P/NP) unless they are only offered as P/NP.
- No GPA penalty for a Pass or No Pass (but the course must be taken again for a grade unless it is only offered as P/NP).

Additional Information (exceptions, preferences, etc.)

- No preference given to PSU students versus students who completed required/shaded courses elsewhere.

Continuation Criteria

- Admitted CS undergraduate students who are not making acceptable progress towards their degree requirements will be dropped from the program and required to reapply for admission. Acceptable progress is defined as completion of at least 8 credits of coursework with acceptable grades (C or better for required CS courses, C- or better for required non-CS courses), satisfying departmental requirements, over the preceding academic year. Readmission will be determined by the CS Appeals Committee.

Prerequisite Policy

- Before enrolling in any Computer Science course, students should read the course description and ensure that they have completed all prerequisites with a grade of C or better for undergraduate courses, or a grade of B or better for graduate courses. Students who have not

met this requirement or who do not meet applicable admission requirements may be administratively dropped from the course.

Department Communication

- Fall 2020 and Winter 2021 admission requirements are available the preceding academic year's Spring term (Spring 2019).

COMPUTER SCIENCE B.S.

Majors in computer science must complete the following University and departmental degree requirements.

- All computer science courses used to satisfy the departmental major must be graded C or better. Courses taken outside the department as part of departmental requirements must be graded C- or better.
- All courses specifically required by the department must be taken for a letter grade unless a required course is only offered with a pass/no pass option.
- After admission to the computer science program, students are required to complete a minimum of 44 upper-division computer science credits in residence at PSU.
- Freshmen entering with 29 or fewer prior university/college credits must complete all University Studies requirements, including freshman and sophomore inquiry sequences and upper-division cluster courses.
- Transfer students must have a minimum of 39 credits of University Studies courses and/or arts and letters/social science courses prior to graduation; 12 of these credits are upper-division cluster courses that must be taken at PSU. Transfer students should consult with the CS departmental adviser for more information.

The following is a sample curriculum. Students choosing to make modifications to this schedule are urged to consult with an adviser.

REQUIREMENTS

Freshman year

CS 162	Introduction to Computer Science	4
CS 163	Data Structures	4
CS 202	Programming Systems	4
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 253	Calculus III	4
	or	
Mth 261	Introduction to Linear Algebra	4

Freshman Inquiry	15
Free electives	12
Subtotal: 51	
Sophomore year	
CS 201 Computer Systems Programming	4
CS 250 Discrete Structures I	4
CS 251 Discrete Structures II	4
Approved Laboratory Science	15
Sophomore Inquiry	12
Subtotal: 39	
Junior year	
CS 300 Elements of Software Engineering	4
CS 305 Social, Ethical, and Legal Implications of Computing	2
CS 320 Principles of Programming Languages	4
CS 333 Introduction to Operating Systems	4
CS 350 Algorithms and Complexity	4
CS 486 Introduction to Database Management Systems	4
Approved upper-division programming intensive CS elective	4
Free electives	4
Wr 227 Introductory Technical Writing	4
Upper-division cluster	12
Subtotal: 46	
Senior year	
CS 469 Software Engineering Capstone I	3
CS 470 Software Engineering Capstone II	3
ECE 341 Introduction to Computer Hardware	4
Approved upper-division computer science electives	20
Approved Math electives	7
Approved Science elective	4
Free electives	3
Subtotal: 44	

Note: The University requires all students to have a minimum of 72 upper-division credits to graduate. Since fewer than 72 upper-division credits are required in computer science, mathematics, and general education for the computer science major, the extra credits of upper-division work must be taken from either the approved math or science electives, or the free electives.

UPPER DIVISION CREDITS

Approved upper-division Computer Science electives

The total may include any regular 300- and 400-level computer science course, and any of the courses:

ECE 455	AI: Neural Networks I	4
ECE 456	AI: Neural Networks II	4
ECE 485	Microprocessor System Design	4
ECE 486	Computer Architecture	4
Stat 451	Applied Statistics for Engineers and Scientists I	4

except that no more than a total of 4 credits may be taken from:

CS 401	Research	1-6
CS 405	Reading and Conference	1-6
CS 406	Special Projects	1-6
CS 407	Seminar	1-6
CS 409	Practicum	1-9

At least 4 credits must be taken from the list of approved "Programming Intensive" courses that is available on the the Computer Science departmental web site. Additionally, CS 404, University Studies courses, and courses specifically described as not being applicable to the CS degree may not be used.

Approved Laboratory Science

Students must select one of the following 15 credit sequences, including their associated laboratories:

Sequence 1:

Ph 211	General Physics (with Calculus) I	4
Ph 212	General Physics (with Calculus) II	4
Ph 213	General Physics (with Calculus) III	4
Ph 214	With Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	With Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	With Lab for Ph 203 or Ph 213 or Ph 223	1

Sequence 2:

Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 223	General Chemistry III	4
Ch 227	With General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ch 229	General Chemistry Laboratory	1

Sequence 3:

Bi 211	Principles of Biology: Molecular Cell Biology & Genetics	4
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Bi 212	Principles of Biology: Development, Evolution & Ecology	4
Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4
Bi 214	Principles of Biology Lab I	1
Bi 215	Principles of Biology Lab II	1
Bi 216	Principles of Biology Lab III	1

Approved Science electives

Students must complete additional credits of Approved Science electives chosen from Biology, Chemistry, Physics, Geology, or Environmental Science. A total of at least 19 credits of Approved Laboratory Science and Approved Science electives must be taken.

Approved Mathematics electives

Students must complete 7 or more credits of approved mathematics electives. The current list of approved courses includes:

Mth 261	Introduction to Linear Algebra	4
Mth 311	Introduction to Mathematical Analysis I	4
Mth 343	Applied Linear Algebra	4
Mth 344	Introduction to Group Theory and Applications	4
Mth 346	Number Theory	4
Mth 356	Discrete Mathematics	4
Mth 457	The Mathematical Theory of Games I	3
Mth 458	The Mathematical Theory of Games II	3
Mth 461	Graph Theory I	3
Mth 462	Graph Theory II	3
Stat 366	Introduction to Experimental Design	4
Stat 451	Applied Statistics for Engineers and Scientists I	4
Stat 452	Applied Statistics for Engineers and Scientists II	3
Stat 464	Applied Regression Analysis	3
Stat 467	Applied Probability I	3
Stat 468	Applied Probability II	3

Other upper-division mathematics or statistics courses may be used to satisfy the requirement with prior written approval from the Computer Science Undergraduate Adviser.

Note: Stat 451 can be used either as an approved mathematics elective, or as an approved upper-division computer science elective, but not both.

COMPUTER SCIENCE MINOR

A minor in computer science is available within the Maseeh College of Engineering and Computer Science in the area of computer science.

REQUIREMENTS

To earn a minor in computer science, a student must complete 36 credits as follows:

Courses

CS 162	Introduction to Computer Science	4
CS 163	Data Structures	4
CS 201	Computer Systems Programming	4
CS 202	Programming Systems	4
	Computer science electives	20

Computer Science Electives: CS 404 not included. At least 12 must be upper division.

Subtotal: 36

Only grades of C or better count toward departmental requirements. At least 18 of the required 36 credits must be taken at Portland State University.

Admission to the CS minor requires successful completion of a programming proficiency demonstration (consult with the CS Department for details).

COMPUTER SCIENCE - HONORS TRACK

The honors degree in computer science requires the writing of an honors thesis. Details about the program can be found at the computer science Web site <http://www.pdx.edu/computer-science/>.

BIOMEDICAL INFORMATICS PROGRAM

Portland State University and Oregon Health & Science University offer an accelerated, collaborative degree program in biomedical informatics. Designed for high achieving freshmen, this program combines courses from both schools to award a B.S. in computer science and Master of Biomedical Informatics at the end of five years. Details about the program can be found at the computer science Web site <http://www.pdx.edu/computer-science/>.

Graduate Programs**ADMISSIONS REQUIREMENTS**

To be considered for admission to the graduate program in computer science, the student must have a four-year baccalaureate degree from an accredited institution. This degree should normally be in computer science; otherwise, the applicant must demonstrate knowledge of the core curriculum of an undergraduate computer science degree.

An undergraduate GPA of at least 3.00 in upper-division coursework and acceptable scores from the Graduate

Record Examination are required. Applicants submit two letters of recommendation, transcripts, and a statement of purpose to the department. Information on acceptable GRE scores can be found on the departmental website.

Normally, an applicant to the Ph.D. program will have an M.S. in computer science. Students may apply to the M.S. program and later apply to the Ph.D. program. Students with a bachelor's degree may apply directly to the Ph.D. program.

COMPUTER SCIENCE M.S.

The master's program in computer science is designed to prepare students for advanced careers in the computer industry, to create a research environment in computer science, and to prepare students for graduate work at the Ph.D. level.

See University master's degree requirements (p. 51). The master's program in computer science consists of two options. The first option involves the completion of an approved program of 45 credits. The second option requires the completion of an approved program of 45 credits, which includes 6 to 9 credits of thesis. In both options, coursework is to include core courses in theory of computation, programming languages, and operating systems, plus a 9-credit concentration in one of the areas listed on the computer science departmental web site. For the thesis option, successful completion of a final oral examination covering the thesis is required.

COMPUTER SCIENCE PH.D.

The doctoral degree program in computer science is designed to prepare students for advanced research or university teaching in the field.

See University doctoral degree requirements (p. 54). The student must complete an approved program of 90 graduate credits, including 18 credits of core courses and 27 credits of dissertation research. To be admitted to Ph.D. candidacy, a student must pass the Ph.D. examination and must present an acceptable dissertation proposal. The dissertation comprises original research work, which is expected to be of a quality meriting publication in a refereed journal or conference.

COMPUTER SECURITY GRADUATE CERTIFICATE

The security certificate program requires admission as a graduate student, similar to admission to the Master's program, in the Computer Science department. The program requires 21 hours total of graduate classes. There are three core classes for a total of 9 hours. In addition four optional classes must be taken for the needed additional 12

credit hours. In summary, seven graduate classes must be taken, three are core, and four classes are optional.

Electrical and Computer Engineering

1900 SW Fourth Ave., Suite 160

503-725-3806

www.pdx.edu/ece/

- B.S.—Computer Engineering
- B.S.—Electrical Engineering
- Minor in Electrical Engineering
- M.S.—Electrical and Computer Engineering
- Ph.D.—Electrical and Computer Engineering

Mission, Vision & Values

Mission

We prepare students for successful engineering careers and lifelong learning, and we conduct research that creates new technologies and engineering knowledge.

Vision

Our vision is to be a source of premier electrical and computer engineering talent and high-impact research. This means our graduates are successful, our research is recognized worldwide, and we are the intellectual center for our discipline in the Portland region.

Values

We value

- The success of our graduates
- Contributions to research and knowledge creation
- High intellectual and ethical standards
- High quality education for traditional and nontraditional students
- A diverse student population
- Our contribution to the Oregon economy
- Lifelong learning
- Technical and professional relationships with the engineering community

Undergraduate programs

The Department of Electrical and Computer Engineering offers programs in electrical and computer engineering. Cooperative educational arrangements with Portland-area industries, government agencies, and engineering consulting offices are available to qualified students. Qualified freshmen are encouraged to participate in the University Honors Program. Qualified upper-division

students should consider the Electrical and Computer Engineering departmental honors track as described below.

The electrical engineering and computer engineering programs at Portland State University are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - Telephone: (410) 347-7700.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Electrical and Computer Engineering's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

PROGRAM EDUCATIONAL OBJECTIVES

The electrical and computer engineering programs prepare our graduates for the following program educational objectives:

1. Graduates are expected to be employed as electrical or computer engineers or in related fields that benefit from an electrical and computer engineering education.
2. Graduates are expected to advance in their profession and engage in the professional community.
3. Graduates are expected to continue to learn and adapt in a world of constantly changing environment and technology.

ADMISSION REQUIREMENTS

ECE Admission Requirements

For students gaining 300-level ECE course admission
FALL 2018

Terms of Admission & Deadlines

Before students can begin taking 300 level ECE courses, they must be admitted to the program and satisfy the course prerequisites.

- The application deadline for admission to the program during fall term is April 15.
- If you are not a current PSU student, please apply to PSU before you apply for admission to our program.
- The application for our program is on the department web site.

Application Requirements

Only students who meet the following requirements by April 15 are eligible to apply for admission to our electrical engineering or computer engineering programs:

- Completed at least six of the following courses:

- Mth 251, Mth 252
- Ph 211 or Ph 221, Ph 214
- ECE 102, ECE 103 or CS 162, ECE 171, ECE 221
- Selective GPA of at least 2.25
- Received a letter grade of C or above in every course required for the degree

Application Recommendations

We recommend that students complete the following courses before applying for admission:

- Mth 256, Mth 261
- Ch 221, Ch 227
- Ph 212 or Ph 222, Ph 215
- ECE 101, ECE 172, ECE 222
- Freshman Inquiry or for transfer students Wr 121 and Comm 220

Selective GPA Calculation

- The selective GPA is calculated from all lower and upper division math, science, computer science, and engineering courses that are required for one of our undergraduate degree programs and that have been completed with a letter grade by the time of application. See the PSU Bulletin for a list of courses required for our undergraduate degree programs.
- If a student retakes a course in which they received a grade lower than a C-, the assigned grade during the first time they took the course will be excluded from the calculation. The grades in all subsequent attempts will be included in the calculation.

Admission Criteria

- All students who have a selective GPA of 3.0 or higher will be admitted.
- Students who meet our admission requirements but have a selective GPA below 3.0 will be considered for admission by a committee.
- We do not give preference to any group of students. Students with transfer credits are treated the same as students who complete their courses at PSU.

ELIGIBILITY

To be eligible for admission, each student should meet the following minimum requirements:

1. Complete, with a minimum grade of C and a minimum GPA of 2.25, a designated set of courses for each program as follows:

Electrical Engineering:

The engineering core consisting of:

Ch 221	General Chemistry I	4	Ph 222	General Physics (with Calculus) II	3
Ch 227	General Chemistry Laboratory	1	Ph 223	General Physics (with Calculus) III	3
ECE 101	Exploring Electrical Engineering	4	Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
ECE 102	Engineering Computation	4	Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
ECE 103	Engineering Programming	4	Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
ECE 171	Digital Circuits	4		Freshman Inquiry	
ECE 172	Digital Systems	4			
ECE 221	Electric Circuit Analysis I	4			
ECE 222	Electric Circuit Analysis II	4			
ECE 223	Electric Circuit Analysis III	4			
Mth 251	Calculus I	4			
Mth 252	Calculus II	4			
Mth 253	Calculus III	4			
Mth 254	Calculus IV	4			
Mth 256	Applied Ordinary Differential Equations	4			
Mth 261	Introduction to Linear Algebra	4			
Ph 221	General Physics (with Calculus) I	3			
Ph 222	General Physics (with Calculus) II	3			
Ph 223	General Physics (with Calculus) III	3			
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1			
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1			
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1			
	Freshman Inquiry				
Ph 211, Ph 212, and Ph 213 also accepted for Ph 221, Ph 222, and Ph 223			Ph 211, Ph 212, and Ph 213 also accepted for Ph 221, Ph 222, and Ph 223		
Freshman Inquiry: Comm 220, and Wr 121 for transfer students			Freshman Inquiry: Comm 220, and Wr 121 for transfer students		
Computer Engineering:			2. Have a minimum technical GPA of 2.25		
Ch 221	General Chemistry I	4	(Technical GPA is based on an average of all major-related classes taken prior to admission).		
Ch 227	General Chemistry Laboratory	1	Selective Admission		
ECE 101	Exploring Electrical Engineering	4	If the number of eligible applicants for admission to the Electrical Engineering or Computer Engineering exceeds that for which resources are available, acceptance will be competitive. In the event selective admission becomes necessary, the GPA computed for the required courses for eligibility for program admission will be used. Priority, within reasonable limits, will be given to resident students.		
ECE 102	Engineering Computation	4	Although the primary purpose of the selective admission procedures is to limit enrollment to the number of students who can be served at a high level of quality, it is recognized that the rigid application of these procedures may eliminate applicants with high potential but who, due to circumstances beyond their control, have had limited access to the type of preparatory education that is essential to achieving the high performance level required for admission. All such applicants will be considered on the basis of their life experience and leadership qualities in addition to their academic achievement.		
ECE 103	Engineering Programming	4	Continuation Criteria		
ECE 171	Digital Circuits	4	After admission to the Electrical Engineering or Computer Engineering undergraduate program, students will be expected to make satisfactory progress toward their declared degree and will be subject to the following rules:		
ECE 172	Digital Systems	4	1. The cumulative major GPA must be 2.00 or higher.		
ECE 221	Electric Circuit Analysis I	4	2. At the conclusion of each term of the academic year, full-time students are normally expected to complete a minimum of 12 credits per term applicable toward their degree program. Part-time students are expected to complete a minimum of 12 credits per year applicable toward their degree program.		
ECE 222	Electric Circuit Analysis II	4	3. The Electrical and Computer Engineering BS degree programs require that students receive a C or better in		
ECE 223	Electric Circuit Analysis III	4			
Mth 251	Calculus I	4			
Mth 252	Calculus II	4			
Mth 253	Calculus III	4			
Mth 256	Applied Ordinary Differential Equations	4			
Mth 261	Introduction to Linear Algebra	4			
Ph 221	General Physics (with Calculus) I	3			

all required upper division courses numbered 300 or higher. If a student is unable to attain this grade after completing the course two times, the student will be suspended from the program.

4. If a student in BS EE or BS CMPE program fails the same required electrical and computer engineering course two times, they are suspended from the program. The student may reapply to the program.
5. Students will be placed on probation when their cumulative major GPA as described in (1) is below 2.00, or their progress toward the degree is less than that described in (2).
6. Students placed on probation for two consecutive terms or for a total of three terms will be suspended from specific degree programs. Students will also be suspended if not enrolled in Electrical and Computer Engineering courses for three consecutive terms.
7. Students denied admission or suspended must wait at least one term before reapplying. This waiting period does not apply to those denied due to "selective admission."
8. Students who have twice been found in violation of the student code of conduct will be automatically suspended from the program or denied admission. Transfer students will normally be expected to provide a disciplinary record from their institution. Any incidences of academic dishonesty are grounds for denial of admission. Full details of this policy are available from the department.

Appeals

Students denied admission or suspended may request reconsideration by submitting a petition. The petition and supporting materials will be reviewed by the Electrical and Computer Engineering Undergraduate Committee. The appeal must be made within 30 days of notice to the student of denial of admission or suspension.

Pass/No Pass Grading Policy

All courses specifically required by the University or by the Electrical Engineering and Computer Engineering programs must be taken for a letter grade unless a required course is only offered with a pass/no pass option.

DEGREE REQUIREMENTS

General Education requirements

The MCECS General Education requirements for engineering students can be met in one of the following ways:

1. Students who complete their entire program at Portland State University meet the requirement by taking 39 credits of University Studies. (15 credits Freshmen

Inquiry, 12 credits Sophomore Inquiry, and 12 credits Upper-division Cluster.)

2. Transfer students meet the requirement by having Wr 121, Comm 220, and 39 credits as a combination of University Studies courses and liberal arts/social science transfer credits. (At a minimum the 12 credit upper-division cluster must be taken at PSU. Please contact ECE departmental adviser for details of this requirement.)
3. Courses specifically required in a program must be taken on a graded basis unless those classes are only available with a pass/no-pass grading option. Classes not specifically identified by a unique number, for example an upper-division cluster class, may be taken on a P/NP basis.

GPA requirements

In order to graduate, electrical engineering and computer engineering students must have an overall GPA, which includes all courses taken at PSU, greater than 2.00. Their major GPA must be greater than 2.00. Major GPA includes all of the engineering courses used toward satisfying the degree requirements, whether taken at PSU or transferred. Normal PSU policies apply for grade replacement in major GPA calculation. If at any point either of these GPAs falls below 2.00 students will be placed on probation, as explained in the Continuation Criteria section above.

ELECTRICAL ENGINEERING B.S.

REQUIREMENTS

The Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700. It is designed to provide a comprehensive background in the electrical sciences and offers an opportunity for specialization in the areas of analog/RF circuits, digital/VLSI design, electromagnetics, microelectronics, power engineering, and signal processing. This program provides the student with the educational background necessary for employment in virtually all electrical engineering fields. Majors in electrical engineering must complete the following University and departmental degree requirements. Any deviation from the required courses must be approved by the department.

Freshman year

ECE 101	Exploring Electrical Engineering	4
ECE 102	Engineering Computation	4
ECE 103	Engineering Programming	4
ECE 171	Digital Circuits	4
ECE 172	Digital Systems	4
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 253	Calculus III	4

Ch 221	General Chemistry I	4
Ch 227	General Chemistry Laboratory	1
	Freshman Inquiry	15
		Subtotal: 52

Sophomore year

ECE 211	Introduction to Design Processes	1
ECE 212	Introduction to Project Development	2
ECE 221	Electric Circuit Analysis I	4
ECE 222	Electric Circuit Analysis II	4
ECE 223	Electric Circuit Analysis III	4
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Mth 261	Introduction to Linear Algebra	4
Ph 221	General Physics (with Calculus) I	3
Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
	Sophomore Inquiry	12
		Subtotal: 51

Junior year

ECE 315	Signals and Systems I	4
ECE 316	Signals and Systems II	4
ECE 317	Signals and Systems III	4
ECE 321	Electronics I	4
ECE 322	Electronics II	4
ECE 331	Engineering Electromagnetics I	4
ECE 332	Engineering Electromagnetics II	4
EE 347	Power Systems I	4
ECE 371	Microprocessors	4
Stat 351	Probability and Statistics for Electrical and Computer Engineering	4
	Junior ECE elective	4
		Subtotal: 44

Junior-level ECE electives are ECE 323, EE 348, ECE 351, ECE 361, ECE 362, ECE 372, ECE 373.

Senior year

ECE 411	Industry Design Processes	2
ECE 412	Senior Project Development I	4
ECE 413	Senior Project Development II	2
ECE 424	Engineering Professional Practice	2
	Junior or senior ECE electives	8

	Senior ECE electives	4
	Upper-division cluster	8
Ec 314U	Private and Public Investment Analysis	4

Subtotal: 34

Ec 314U is a required course contained within some upper-division clusters.

Junior-level ECE electives are ECE 323, EE 348, ECE 351, ECE 361, ECE 362, ECE 372, ECE 373. One of the junior- or senior-level electives may be a Mth, CS, ME, or Ph course numbered 311 (or 411) and above.

Senior-level ECE electives are any ECE course numbered 400 and above.

ELECTRICAL ENGINEERING MINOR

A minor program is available within the Maseeh College of Engineering and Computer Science in the area of electrical engineering.

REQUIREMENTS

A student wishing to minor in this area should complete, with a minimum grade of C, and a minimum GPA of 2.25, a designated set of courses as follows:

Courses

ECE 101	Exploring Electrical Engineering	4
ECE 102	Engineering Computation	4
ECE 103	Engineering Programming	4
ECE 171	Digital Circuits	4
ECE 172	Digital Systems	4
ECE 221	Electric Circuit Analysis I	4
ECE 222	Electric Circuit Analysis II	4
ECE 223	Electric Circuit Analysis III	4

or approved equivalents

At least four lecture courses from this list must be taken at Portland State University. Course requirements for the minor also meet partial eligibility requirements for admission to the electrical engineering and computer engineering programs. Students who complete the requirements for the minor may wish to apply for admission to one of these programs. Students graduating in computer engineering may not claim a minor in electrical engineering. Students planning to minor in electrical engineering should consult with an advisor in the Department of Electrical and Computer Engineering.

COMPUTER ENGINEERING B.S.

The Computer Engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700. It is designed to provide a comprehensive background in computer engineering and

offers an opportunity for specialization in the areas of digital electronics, VLSI circuit design and computer aided design, robotics, computer architecture, communication systems, and embedded microprocessor system design. This program provides the student with the educational background necessary for employment in virtually all branches of the digital electronics and computer industry. Majors in computer engineering must complete the following University and departmental degree requirements. Any deviation from the required courses must be approved by the department.

REQUIREMENTS

Freshman year

ECE 101	Exploring Electrical Engineering	4
ECE 102	Engineering Computation	4
ECE 103	Engineering Programming	4
ECE 171	Digital Circuits	4
ECE 172	Digital Systems	4
Ch 221	General Chemistry I	4
Ch 227	General Chemistry Laboratory	1
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 253	Calculus III	4
	Freshman Inquiry	15
		Subtotal: 52

Sophomore year

ECE 211	Introduction to Design Processes	1
ECE 212	Introduction to Project Development	2
ECE 221	Electric Circuit Analysis I	4
ECE 222	Electric Circuit Analysis II	4
ECE 223	Electric Circuit Analysis III	4
Mth 256	Applied Ordinary Differential Equations	4
Mth 261	Introduction to Linear Algebra	4
Mth 356	Discrete Mathematics	4
Ph 221	General Physics (with Calculus) I	3
Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
	Sophomore Inquiry	12
		Subtotal: 51

Junior year

ECE 315	Signals and Systems I	4
ECE 321	Electronics I	4
ECE 351	Verilog and FPGA Design	4

ECE 361	Computer System Organization	4
ECE 362	Embedded Operating Systems	4
ECE 371	Microprocessors	4
ECE 372	Microprocessor Interfacing and Embedded Systems	5
ECE 373	Embedded Operating Systems & Device Drivers	5
Stat 351	Probability and Statistics for Electrical and Computer Engineering	4
	Junior ECE electives	8
		Subtotal: 30

Junior-level ECE electives are ECE 322, ECE 323, ECE 315, ECE 316, EE 347, EE 348, ECE 331, ECE 332.

Senior year

ECE 411	Industry Design Processes	2
ECE 412	Senior Project Development I	4
ECE 413	Senior Project Development II	2
ECE 424	Engineering Professional Practice	2
ECE 485	Microprocessor System Design	4
ECE 486	Computer Architecture	4
	Junior or senior ECE elective	4
Ec 314U	Private and Public Investment Analysis	4
	Upper-division cluster	8
		Subtotal: 34

Ec 314U is a required course contained within some upper-division clusters.

Junior-level ECE electives are ECE 322, ECE 323, ECE 315, ECE 316, EE 347, EE 348, ECE 331, ECE 332.

The junior- or senior-level elective may be a Mth, CS, ME, or Ph course numbered 311 (or 411) and above.

Senior-level ECE electives are any ECE course numbered 400 and above.

ELECTRICAL ENGINEERING AND COMPUTER ENGINEERING HONORS TRACK

The Electrical Engineering and Computer Engineering departmental honors tracks permits highly motivated, qualified students to pursue a subject in the field of electrical or computer engineering in greater depth than is normally possible within the undergraduate ECE programs. Students who meet honors track requirements will receive special recognition on their diploma.

Admission Criteria

1. Admission to the Electrical or Computer Engineering Program and completion of minimum 90 credit hours of degree required courses.

2. Minimum overall and major GPA of 3.40.
3. At least three quarters of EE or CMPE degree program study left.

Application Procedure

Typically, students should apply for admission during the spring quarter of their junior year, but applications will be considered year-round. Students should submit the following:

- ECE Honors Program application form;
- official transcripts of all university work;
- letters of reference from at least two ECE faculty members; and
- statement of interest indicating reasons for seeking admission to the honors program.

After admission, student will work with the ECE department to identify the faculty advisor and develop an honors project plan.

Additional graduation requirements:

1. Completion of 6 credits of ECE 403 Honors Thesis with a minimum grade of B+ (Note: 4 credits can replace one senior elective.)
2. Approved final written thesis and public presentation.
3. Overall and major GPA greater than 3.40.

More details are available from the ECE department.

FAST TRACK BS+MS PROGRAM

Since the amount of knowledge required for state-of-the-art design is much greater than can be gained in a four-year BS program, a Master's degree is now considered the "career" degree in the Electrical and Computer Engineering field. An ECE graduate who enters the field with a BS degree is expected to obtain a Master's degree as part of his/her long term career advancement. Graduates who enter the profession with Master's degrees start with considerably higher salaries and are eligible for more advanced positions.

The usual time required to directly obtain a BS in Electrical Engineering or a BS in Computer Engineering and an MS in Electrical and Computer Engineering is 4 years for the BS and an additional 5 quarters for the MS. This total of more than five and a half years is financially difficult and excessively delays entry into the industry. The Fast Track BS+MS program significantly shortens this path for top students by allowing up to 15 credits of ECE graduate credits to be used for both the BSEE degree or the BSCMPE degree and the MSECE degree.

Admission criteria

Students will apply for this program using an online application form that is a slightly modified version of the standard graduate application form. Since many ECE students are making their way through their programs on a part-time basis and are therefore ready to enter the program at different times, students may apply to enter the program during any quarter. A GRE score is not required. The admission criteria for the program are as follows:

- Admitted to the ECE Department for BSEE or BSCMPE
- 3.3 cumulative GPA
- 3.3 upper division major GPA with at least 16 credits of upper division ECE classes

Admission process and program flow

Applications for this program will be processed by the Graduate Program Director just as regular graduate applications are. When a student is accepted, he/she will be assigned an ECE Faculty Advisor who is an expert in the MS coursework track choice stated in the application. Since the M.S. tracks closely parallel the coursework tracks in the BS programs, the MS track chosen will usually be just an extension of the track the applicant is pursuing in his/her undergraduate program. In most cases, the 400 level senior classes specified in an undergraduate track have both 400 and 500 levels available and the 500 level versions of these courses are included in either the Core list or the Depth and Breadth list for the related graduate level track. With Advisor approval, students in the Fast Track BS + MS program will take the 500 level versions of these classes and use up to 15 credits of these to satisfy both BS requirements and MS requirements. Note that 3 credits from a 4 credit class can be used to bring the shared total up to 15 credits but all shared classes must have grades of B or higher.

Graduate programs

The ECE Department offers M.S., and Ph.D. degrees in a variety of Electrical and Computer Engineering technical areas. Programs are available on both a full-time and part-time basis. Many classes are offered in the late afternoons and early evenings.

Please refer to the departmental *website* at www.pdx.edu/ece for detailed program information.

ADMISSION REQUIREMENTS

Master of Science in Electrical and Computer Engineering

Admissions to our M.S. programs are selective and capacity is limited. Learn how to apply. Master of Science in Electrical and Computer Engineering applicants with a B.S. degree in either electrical or computer engineering,

and a grade point average of 3.00 or better in all junior- and senior-level technical courses will be directly considered for admission to the Department of Electrical and Computer Engineering as regular graduate students.

Applicants with a B.S. in either electrical or computer engineering with a grade point average in their upper division technical coursework below 3.00 but higher than 2.75 may be granted conditional admission status.

Applicants with a B.S. degree in some other field (e.g., mathematics, physics, computer science, mechanical engineering, economics, etc.) will be required to take an individually specified group of undergraduate ECE classes as a Post-Baccalaureate student to gain the basic skills needed to succeed in an ECE Master's program. Upon successful completion of these undergraduate ECE "bridge" classes with grades of B or better, an applicant will be considered for admission to the Department of Electrical and Computer Engineering as a regular M.S. student.

M.S. applicants with electrical or computer engineering B.S. degree from a non-ABET accredited university must submit official GRE scores. An applicant whose B.S. degree is from a university in a country where English is not the native language must provide proof of English language proficiency as required by PSU International Admissions.

Applications are accepted for fall (starting in September) and winter (starting in January). Most graduate course sequences begin in the fall or winter quarters, and students who arrive in spring or summer may have more difficulty finding suitable courses for their desired track.

Application for Admission to M.S. Program

Please apply online.

More information (required documents, deadlines, etc.) is available on our Admissions Process page.

Doctor of Philosophy in Electrical and Computer Engineering

Applicants to the Ph.D. program in electrical and computer engineering will normally have completed a master's degree in electrical engineering or a related field. However, admission directly to the Ph.D. program from a bachelor's degree program is possible if desired.

The following application items are required for the ECE Department:

- Statement of purpose
- GRE score

- 3 references
- Unofficial transcripts
- Writing sample

Please see our application page for more information.

Students are normally only admitted to our program if a faculty member has agreed to serve as the adviser. Before applying to our PhD program, you should contact faculty working in an area of research that is of interest to you. Your adviser will stay the same throughout your time in the doctoral program. You can find a list of our faculty here. The department has many ongoing research programs and supporting research laboratories which are listed here.

Application for Admission to Ph.D. Program

Please apply online.

More information (required documents, deadlines, etc.) is available on our Admissions Process page.

ELECTRICAL AND COMPUTER ENGINEERING M.S.

Master of Science (M.S.)

Thesis and coursework-only options are available in the ECE M.S. program. All ECE M.S. students are required to complete a study plan approved by their faculty advisers before completion of sixteen ECE graduate credits. M.S. students can follow one of the graduate tracks or develop a custom study plan with their faculty adviser. In addition to the university master's degree requirements, an M.S. student choosing either option must complete at least 45 graduate level credits. Coursework taken without adviser approval may not be accepted as part of the student's program. Each student will be assigned an interim adviser at the time of admission.

Each of the graduate tracks is comprised of a list of Core courses and a list of Depth and Breadth courses.

Thesis option

Thesis M.S. students usually follow one of the Graduate Track study plans consisting of four Core courses (16 credits), two Depth and Breadth courses (8 credits), 9 credits of thesis, and 12 elective credits. Elective Credits may include additional ECE graduate courses, ECE 501-509 credits, or, with adviser approval, graduate classes from another department. Only 3 credits of ECE 507 may be counted as elective credits. A student may substitute an appropriate alternative class or classes for Core or Depth classes in a track by obtaining written permission from his/her Adviser before taking the class(es).

Thesis M.S. students must also develop, write, and give an

oral defense of a thesis approved by the student's thesis committee. The defense is public and its schedule must be posted in the Electrical and Computer Engineering Department at least two weeks in advance. Please contact the Graduate Coordinator (rfidler@pdx.edu) to schedule the defense and announcement. See the ECE Graduate Handbook for additional information about thesis requirements and timing.

Students should choose a research topic and adviser for their thesis; information on research in the department can be found [HERE](#).

Coursework-only option

For the coursework-only M.S. option, students take courses following an adviser-approved track of graduate classes. Please see pre-approved Depth and Breadth advisory tracks. These tracks were designed by the faculty to give both depth and breadth of knowledge in the specified study area. This depth and breadth approach greatly improves a student's ability to get a job in the specified area or do research in the specified area. Most M.S. students will follow one of the pre-approved, faculty-designed tracks shown. These are the tracks used by DARS to determine if a student is ready to graduate. However, it is possible to develop a custom track with faculty adviser and Graduate Program Director approval. The credits required for this option are sixteen credits of ECE graduate lecture classes that form a core, sixteen credits of ECE graduate lecture classes that provide Depth and Breadth, four credits of elective ECE graduate lecture classes, and nine credits of approved graduate electives. Coursework-only students must submit an adviser-approved study plan Program Completion Form from their desired track no later than completion of sixteen ECE graduate credits.

ELECTRICAL AND COMPUTER ENGINEERING PH.D.

Doctoral Degree (Ph.D.) in Electrical and Computer Engineering

In addition to the University doctoral degree requirements listed in the PSU Bulletin, a candidate for the Ph.D. degree in electrical and computer engineering must complete a minimum of 80 graduate credits consisting of at least 45 ECE graduate credits, 8 elective graduate credits and at least 27 credits of ECE 603 (dissertation). Of the 45 ECE credits, 32 credits must come from ECE lecture courses (24 lecture credits if the student successfully completed an ECE MS Thesis). The 8 elective credits may come from any academic department, but must be lecture credits only.

Each Ph.D. must have at least one journal publication. Specific course requirements depend on the student's area of emphasis, and the student's program must be approved by his/her academic adviser. Students in the Ph.D. program in Electrical and Computer Engineering are required to

pass a comprehensive examination (written or oral) after completing a substantial amount of coursework. They are also required to obtain approval of their proposed research plan by their doctoral committee before they can be advanced to candidacy. A dissertation containing a real contribution to knowledge based on the candidate's own investigation and a final oral dissertation defense are required. The dissertation must show a mastery of the literature of the subject and be written in credible literary form. The defense is public and its schedule must be posted in the Electrical and Computer Engineering Department at least two weeks in advance. Please contact the Graduate Coordinator (rfidler@pdx.edu) to schedule the defense and announcement.

Lecture courses taken under the undifferentiated grading option (P/NP) shall not be used to satisfy any graduate degree program requirements. All coursework must be completed with a grade of B- or better.

Students should choose a research topic and adviser for their dissertation; information on research in the department can be found [HERE](#).

Check List for Ph.D. Degree Requirements

1. Appointment of the Advisory Committee
2. Study Plan Approved by the Advisory Committee
3. Comprehensive Exam Passed
4. Doctoral Dissertation Committee Approved
5. Residency requirement
6. Dissertation Proposal Approved
7. Advancement to Candidacy
8. Minimum of 3 years beyond BS degree
9. Journal Publication Requirement
10. Final Oral examination—Dissertation Defense
11. Dissertation Signature Page

Engineering and Technology Management

LL Suite 50-02, Fourth Avenue Building
503-725-4660
www.etm.pdx.edu/

- M.S.—Engineering and Technology Management
- M.Eng.—Technology Management
- M.Eng.—Project Management
- M.Eng.—Manufacturing Engineering Management
- Ph.D.—Technology Management
- Graduate Certificates

Strong management skills are increasingly important to technical professionals. Managing R&D projects, technological systems, technical organizations and resources, and other professionals requires management knowledge and skills.

Engineers and scientists are faced with these challenges very early in their careers. Typically, within three to seven years after graduation, they find themselves addressing complex issues which necessitate that they play two roles simultaneously: the role of the specialist and the manager of technology. Those who choose the management path start moving toward management responsibilities while maintaining identity in their technical backgrounds. The Engineering and Technology Management Department (ETM) has been designed for them.

ETM is a graduate department addressed to the needs of engineers and scientists whose objective is to advance to technical management positions in business, industry, or government. It also addresses the needs of those who are interested in continuing their studies toward a research-based career in engineering/technology management in academic institutions or R&D organizations.

ETM draws on the strengths of the Maseeh College of Engineering and Computer Science, the School of Business Administration, and several other relevant academic disciplines. By utilizing the diverse faculty resources of the University, the program offers the opportunity to study the human, technical, and analytical aspects of management.

Most of the courses in the program are offered during the evening hours to fit the schedule of practicing professionals.

ADMISSION REQUIREMENTS

Master of Science in Engineering and Technology Management

In addition to meeting general University admission requirements (p. 51), applicants to the program are required to have a baccalaureate degree in engineering or related discipline, background in probability/statistics, and four years of professional experience. Admission is granted to applicants who are judged to have a higher potential as reflected by their past academic performance and professional experience. Any variation from these requirements must be approved by the ETM department.

Graduate Certificate in New Product Development, Strategic Management of Technology, Technology Management, Project Management, and Technological Entrepreneurship

Admission requirements for the ETM certificates are identical to the ETM Department's MS program.

ENGINEERING AND TECHNOLOGY MANAGEMENT M.S.

A minimum of 52 credits in approved graduate courses is required to complete the Master of Science degree in engineering and technology management. The program consists of 28 credits in the core, 4 credits (or 8 with thesis option) in the capstone requirement, and 20 credits (or 16 with thesis option) in electives.

REQUIREMENTS

Core courses

ETM 520	Management of Engineering and Technology	4
ETM 522	Communication and Team Building	4
ETM 530	Decision Making	4
ETM 535	Advanced Engineering Economics	4
ETM 540	Operations Research	4
ETM 545	Project Management	4
ETM 555	Technology Marketing	4

Capstone requirement (one of the following; 4 credits or 8 credits with thesis option):

ETM 503	M.S. Thesis	8
ETM 506	Capstone Project	4
ETM 590	Engineering and Technology Management Synthesis	4

Electives (20 credits or 16 credits with the thesis option)

The Engineering and Technology Management Department offers a wide range of elective courses. In addition, students may choose electives in several other programs throughout the University with the approval of their adviser.

TECHNOLOGY MANAGEMENT, PROJECT MANAGEMENT, AND MANUFACTURING ENGINEERING MANAGEMENT

The Master of Engineering programs are currently approved for the ETM department, but we are not accepting applications at this time.

TECHNOLOGY MANAGEMENT PH.D.

Admission requirements include Bachelors or higher degree in engineering, sciences, management with technology emphasis, or related disciplines; minimum 3.0 undergraduate GPA or 3.50 GPA in at least 12 graduate credits; GRE scores obtained within two years of application to the program; a detailed statement of research interests acceptable to the ETM faculty; minimum 575 TOEFL score for international applicants; and three letters of recommendation. In addition to the University's general

degree requirements, the Ph.D. program in Technology Management consists of the following nine steps:

(Step-1): Admission to the program;

(Step-2): Successful completion of the equivalent of at least 60 credits of coursework beyond the Bachelor's degree distributed as follows: CORE: at least 20 credits from the following courses with at least one course from each group. All courses are four credits each. Additional courses taken from this group beyond the minimum required 20 credit hours can be counted toward the fulfillment of the specialization course requirements described below.

Group-1: ETM-620 Management of Engineering and Technology, ETM-649 Management of Technology Innovation;

Group-2: ETM-645 Project Management, ETM-655 Technology Marketing;

Group-3: ETM-626 Strategic Management of Technology, ETM-627 Competitive Strategies in Technology Management;

Group-4: ETM-631 Technology Assessment and Acquisition, ETM-633 Technology Transfer.

SPECIALIZATION: at least 20 credits from courses supporting the proposed research area, including Communications and Team-building, Strategic Planning, Manufacturing Systems Engineering, Manufacturing Systems Management, Total Quality Management, Technology Forecasting, Managing Intellectual Capital, Ethical Issues in Technology Management, Technology Entrepreneurship, Project Management Framework, Project Management Tools, R&D Management, New Product Development, Managing New Technology Introduction, Human Side of Technology Management, Mgmt-544: Technology Management, Mktg 548: Product Management and Innovation, MIM 524: Global Sourcing and Supply, Psy 578: Leadership and Group Effectiveness, Psy 615: Advanced Industrial/Organizational Psychology, PA 545: Organization Development, PA 555: Program Evaluation and Management, PA 598: Value-based Management, Soc 557: Complex Organizations, Ec 531: Urban Economics, Ec 532: Environmental Economics.

METHODOLOGY: at least 20 credits from the following courses: Decision Making, Advanced Engineering Economics, Benchmarking Using Data Envelopment Analysis, Operations Research, Manufacturing Systems Simulation, Research Methods for Engineering and Technology Management, Technology Forecasting, Decision Support Systems: Data Warehousing, Project Management Tools, Strategic Intelligence, Psy 621: Univariate Quantitative Methods, Psy 622: Multiple Regression & Multivariate Quant Methods, Psy 623: Factor Analysis & Covariance Structure Modeling, Psy 593: Decision Making Laboratory, Mth 667, Mth 668, Mth

669: Stochastic Processes and Probability Theory-I, II, III, Mth 692: Research Methodology and Design, Stat 451, Stat 452: Applied Statistics for Engineers and Scientists-I, II, Stat 564: Applied Regression Analysis, SySc 514: System Dynamics, SySc 625: Agent Based Simulation, SySc 627: Discrete System Simulation, SySc 629: Business Process Modeling and Simulation, USP-655: Structural Equation Modeling, USP 656: Multilevel Regression, Soc 597: Applied Survey Research, Ec 586: Project Evaluation, Ec 570: Econometrics. The student may also choose additional courses in other academic units throughout the university, approved by their adviser, if such courses are supportive of their proposed research areas.

(Step-3): 12 project credits of ETM 606 supervised by ETM faculty culminating in the preparation of a research paper evaluated by the ETM faculty as being at the level of acceptable papers for a national or international conference on Engineering and Technology Management.

(Step-4): Successful completion of a comprehensive examination to demonstrate mastery of the Engineering and Technology Management field, including the defense of the research paper described in step 3 above.

(Step-5): Selection of the dissertation adviser from the ETM faculty and formation of the Ph.D. committee including one member appointed by the Dean of Graduate Studies.

(Step-6): Development of the dissertation proposal and its approval by the Ph.D. committee resulting in the advancement to Ph.D. candidacy.

(Step-7): Registering for at least 27 dissertation credits while conducting research after successful completion of the comprehensive exam.

(Step-8): Preparation of at least one publishable paper for a research journal or a recognized refereed technical conference proceedings based upon the dissertation research.

(Step-9): Defense of the dissertation.

Mechanical & Materials Engineering

Suite 400, Engineering Building
503-725-4290
mmedept@pdx.edu
www.pdx.edu/mme/

- Bachelor of Science in Mechanical Engineering (BSME)
- Master of Science in Mechanical Engineering (MSME)
- Master of Science in Materials Science and Engineering (MSMSE)
- Doctorate in Mechanical Engineering (PhD)

Mechanical & Materials Engineering is a multi-faceted program offering a strong educational experience steeped in a variety of research areas, which includes mechanical design, additive manufacturing, robotics, microgravity fluid management, microfluidics, nanomaterials, semiconductor materials, biomaterials, and metallurgy. Located in Portland, Oregon, the Department benefits from strong ties to local industries, as well as international partnerships.

Undergraduate program

The Bachelors of Science in Mechanical Engineering (BSME) program is a 2+2 program. Students spend their first two years taking lower-division courses in math, science, and engineering. At the end of their sophomore year, students apply for admission into the BSME upper-division program.

Students admitted to the BSME upper-division program will be placed on one of two course plans for their junior year. These two course plans are the ME 313 First Course Plan and the ME 320 First Course Plan. These course plans are designed to maintain a healthy class size and help make sure that seats are available for newly admitted students. All juniors will complete the same courses, just in a different order, and still meet prerequisites.

MECOP students are placed on the course plan that aligns with MECOP program requirements.

By following the assigned course plan, a student is able to complete the BSME in four years. As a reminder, the Department requires students to complete all highlighted classes with a grade of 'C' or better, prior to applying for admission into the upper-division program.

The prerequisite map shows relationships between required courses in the BSME program. The General Education requirements are *not* shown.

Our BSME program is accredited by the Engineering Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21201; telephone 410-347-7700. ABET is the national organization that sets standards for engineering education defined in terms of curricular content, quality of faculty, and adequacy of facilities.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Mechanical & Materials Engineering's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

PROGRAM OBJECTIVES

The educational objectives of the program are to prepare engineers who have:

- The ability to practice the profession of mechanical engineering effectively and responsibly.
- The ability to integrate into the professional community and advance in their careers.
- The ability to pursue advanced degrees and engage in engineering research.

MME ADMISSION REQUIREMENTS

For students gaining 300-level MME course admission FALL 2019

Terms of Admission & Deadlines

- Fall admission only
- Application deadline is April 15
- MME application is on department website: www.pdx.edu/mme/bsme-application
- If not a current PSU student, please apply first to PSU: <https://www.pdx.edu/undergraduate-admissions/>

Minimum Eligibility for Consideration

- All required/shaded classes on the BSME course plan completed prior to Fall 2019 with a grade of C or better. A C- will not count as meeting admission criteria.
- A Selective Admission GPA of 2.25 or higher. The Selective Admission GPA is calculated using only the required/shaded courses on the BSME course plan, excluding Freshman Inquiry or, for transfers, Wr 121 and Comm 220.
- Freshman Inquiry (for those who began PSU as freshman) or Wr 121 and Comm 220 (for transfer students) must be completed prior to fall.

Selective Admission

- All students who meet the minimum grade requirement and have no more than 6 required/shaded Selective Admission GPA courses outstanding as of April 15, 2019 will be considered. The outstanding courses must be completed prior to the start of fall term. Examples:
 - OK =
 - Spring 2019 – EAS 212, EAS 215, ME 122, Mth 261
 - Summer 2019 – Mth 256, Ph 213/Ph 216, Comm 220

- 7 classes total, 6 are required for GPA
- Not OK =
 - Spring 2019 – EAS 212, EAS 215, ME 122, Mth 261
 - Summer 2019 – Mth 256, Ph 213/Ph 216, ECE 241
 - 7 classes total, 7 are required for GPA
- Selective Admission GPA will not be calculated for any student until winter grades are received by the MME Department. Students with a Selective GPA of 2.50 or above will be conditionally admitted into the program. Conditions will be the completion of outstanding required courses, outlined in the admission letter. A ‘pending spring grades’ decision will be relayed to students with a Selective GPA below 2.50. **Transfer students who do not provide unofficial transcripts with winter grades may be denied admission. Transcripts can be sent to mmedept@pdx.edu.**
- Admission will be offered to the top students (approximately 120), including conditionally admitted students, based on their Selective Admission GPA.
 - If a conditionally admitted student does due diligence and cannot locate the necessary course(s) at PSU or local community colleges, it is possible the condition may be extended through end of fall. Extension must be approved by the MME Academic Advisor. Official transcripts must be provided to both PSU Admissions Office and MME Department once grades post to determine if the conditions were met.
- Admission decisions will generally be communicated to students via email by May 15, 2019. Decisions will be:
 - Admit
 - Conditionally Admit
 - Pending Spring Grades (official decision will be sent after spring grades are evaluated)
 - Deny (students may request a meeting with the MME Academic Advisor to review decision)

Repeated Classes

- Standard PSU repeat/replace policy applies to Selective Admission GPA:
 - If a student earned a D+ or below in a class the first time, then only the repeated (second) grade will be used in the Selective GPA calculation
 - If a student earned a C- or above in a class the first time, then both the first grade and the second

(repeated) grade will be used in the Selective GPA calculation

- Should a class be taken a third time it does not replace the second attempt regardless of either grade

Additional Testing

- No test required

Pass/No Pass

- Required classes must be taken for a grade (not P/NP)
- If a student earns a NP in a required class it will be calculated in selective admission GPA as an F and the course must be taken for a grade

Additional Information (exceptions, preferences, etc.)

- No preference given to PSU students versus students who completed required/shaded courses elsewhere

Department Communication

- The MME Department (mmedept@pdx.edu) will communicate to students via email. If the student has a pdx.edu email, all email communications will be sent to that address.
- Fall 2020 admission requirements will be available Spring 2019 (in time for Fall 2019 registration in May 2019)

ELIGIBILITY

Students must complete the following required/shaded courses with a minimum grade of C:

Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
EAS 211	Statics	4
EAS 212	Strength of Materials	4
EAS 215	Dynamics	4
ECE 241	Introduction to Electrical Engineering	4
ECE 241L	Introduction to Electrical Engineering Lab	
ME 120	An Introduction to Engineering	3
ME 121	Introduction to Systems and Control	3
ME 122	Introduction to Design	3
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Mth 261	Introduction to Linear Algebra	4

Ph 211	General Physics (with Calculus) I	4
Ph 212	General Physics (with Calculus) II	4
Ph 213	General Physics (with Calculus) III	4
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
	Freshman Inquiry	15

Ph 221, Ph 222, and Ph 223 also accepted.

Freshman Inquiry: Comm 220 and Wr 121 for transfer students.

CONTINUATION CRITERIA

After admission to the BSME Program students will be expected to make satisfactory progress toward their declared degree and will be subject to the following rules:

1. The term GPA in all courses taken at PSU must be 2.00 or higher.
2. At the conclusion of each term of the academic year, full-time students are normally expected to complete a minimum of 12 credits applicable toward their degree program. Part-time students are expected to complete a minimum of 12 credits per year applicable toward their degree program.
3. Students will be placed on probation when their term GPA as described in (1) is below 2.00, or their progress toward the degree is less than that described in (2).
4. Students placed on probation for two consecutive terms or for a total of three terms will be suspended from the BSME program. Students also will be suspended if not enrolled in engineering and/or computer science courses for three consecutive terms.
5. Students who are suspended must meet with an advisor to determine whether and under which conditions readmission is feasible.
6. Students must have a major GPA of at least 2.0 in order to graduate with their BSME.

APPEALS

Students denied admission or suspended may request reconsideration by submitting a petition. The petition and supporting materials will be reviewed by the Chair of the Mechanical & Materials Engineering Department and the Maseeh College's Academic Appeals Committee; a

recommendation will be forwarded to the Dean. The appeal must be made within 30 days of notice to the student of denial of admission or suspension.

PASS/NO PASS GRADING POLICY

All courses specifically required by the University or by the Department must be taken for a letter grade unless a required course is only offered with a pass/no pass option.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING DEGREE REQUIREMENTS

Majors in Mechanical Engineering must complete the following University and Departmental degree requirements. Any deviation from the required courses, including engineering and mathematics course substitutions, must be approved, in writing, by the Chair of the Department of Mechanical & Materials Engineering.

REQUIREMENTS

Freshman year

Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
ME 120	An Introduction to Engineering	3
ME 121	Introduction to Systems and Control	3
ME 122	Introduction to Design	3
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 261	Introduction to Linear Algebra	4
	Approved Science elective	4
	Freshman Inquiry	15

Subtotal: 50

Approved Science Elective: Any course from Biology, Environmental Science and Management, Chemistry, Geology or Physics not explicitly listed as a degree requirement.

Sophomore year

EAS 211	Statics	4
EAS 212	Strength of Materials	4
EAS 215	Dynamics	4
ECE 241	Introduction to Electrical Engineering	4
ECE 241L	Introduction to Electrical Engineering Lab	
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Ph 211	General Physics (with Calculus) I	4

Ph 212	General Physics (with Calculus) II	4
Ph 213	General Physics (with Calculus) III	4
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
	Sophomore Inquiry	12
		Subtotal: 51

Junior year

BA 306U	Essentials of Finance for Non-Business Majors or	4
Ec 314U	Private and Public Investment Analysis	4
ME 213	Properties of Materials	4
ME 213L	Properties of Materials Lab	
ME 240	Survey of Manufacturing Processes	2
ME 240L	Survey of Manufacturing Processes Lab	
ME 250	Geometric Modeling	2
ME 250L	Lab for ME 250	
ME 313	Analysis of Mechanical Components	4
ME 314	Analysis and Design of Machine Elements	4
ME 320	Fluid Mechanics	4
ME 320L	Fluid Mechanics Lab	
ME 321	Engineering Thermodynamics I	4
ME 322	Applied Fluid Mechanics and Thermodynamics	4
ME 323	Heat Transfer	4
ME 350	Programming and Numerical Methods	2
ME 351	Vibrations and System Dynamics	4
Wr 327	Technical Report Writing	4
		Subtotal: 46

Senior year

ME 370	Mechanical Engineering Profession	2
ME 411	Engineering Measurement and Instrumentation Systems	4
ME 411L	Engineering Measurement and Instrumentation Systems Lab	
ME 488	Design of Experiments	4
ME 491	Design Process	2
ME 492	Conceptual Design Project	4
ME 493	Detailed Design Project	4

Approved mechanical engineering electives	16
Upper-division cluster	8

Subtotal: 44

Approved Mechanical Engineering electives

Electives include any regular upper-division mechanical engineering course, except that no more than 4 credits be taken from:

ME 401	Research	1-6
ME 404	Cooperative Education/Internship	1-12
ME 405	Reading and Conference	1-6
ME 406	Special Projects	1-6

Further, students can take one MCECS non-ME course and apply it toward elective credits. Students can take an additional MCECS non-ME course, if taken at the 500-level, with advisor approval.

MECOP students must complete EAS 407, MECOP Seminar.

HONORS TRACK

Entry Requirements

- Admission to the BSME Program
- Minimum cumulative GPA of 3.50
- Minimum GPA of 3.40 in upper-division engineering courses (16 credits minimum)
- Application to the Mechanical Engineering Honors Track

Each student participating in the Honors Track will be assigned an honors advisor. The advisor will work with the student to complete a written proposal for the Honors Thesis research, conducted in a specialty area within mechanical engineering. The completed Honors Thesis research will be presented in a seminar format to mechanical engineering faculty and students. The Honors Thesis, ME 403, may qualify as an approved mechanical engineering elective.

BACHELOR'S + MASTER'S PATHWAY

The Bachelor's + Master's Pathway Program allows currently admitted BSME students to get a head-start on their master's degree. Students admitted into the Pathway Program are able to take up to 16 credit hours of 500 level course work as an undergraduate, at an undergraduate tuition rate*, and apply the credits to both their undergraduate and graduate degrees. Admitted pathway students have the potential to start their graduate program with 16 credits already completed.

Students must apply by the end of their junior year, and if admitted, will automatically matriculate into an MME

graduate program as long as they meet the Pathway continuation criteria. Students in the Pathway Program can pursue any of the MME master level graduate programs.

*Post-bac students will be charged graduate tuition rates per PSU policy.

Credit Application

Once a Pathway student is formally admitted into a graduate MME program, the Department will request the 500 level credits taken as an undergraduate to be applied to his or her master's degree. Only coursework with a grade of B, or higher, will be applied.

Admission Criteria

Students applying to the Pathway Program must meet the following criteria:

- Admitted into the BSME Program
- Completed 10 credit hours of 300 or 400 level upper division BSME coursework
- Institutional GPA of 3.3 at time of application
- Three letters of recommendation from faculty members (MME faculty members preferred)
- Statement of purpose

Application Deadline

Students must apply by the end of the third term of their junior year. Applications need to be submitted by the end of finals week.

Continuation Criteria

Students must have an institutional GPA of 3.3 upon graduation from the BSME program to be fully admitted into the graduate program.

Graduate programs

The Mechanical & Materials Engineering Department offers three masters degrees and one PhD degree. Each program is designed to help students achieve career goals, meeting industry or research interests. Students who plan to work or who are currently working in industry, have the ability to earn a masters degree by completing coursework and foregoing research. Students seeking research opportunities or advancement to a PhD program, have the option to perform research with a variety of faculty members and complete either a thesis or project.

Research areas include: green buildings, sustainable water, wind energy, capillary fluids, controls, mechatronics, materials testing, nanofabrication and synthesis, and

electronic packaging, among others. Information on faculty, research, and labs can be found here.

ADMISSION REQUIREMENTS

Master of Science in Mechanical Engineering (MSME)

Applicants who have received a Bachelor of Science degree in Mechanical Engineering or in a closely related field from an accredited university, and who meet University graduate admission requirements, will be considered for regular admission. Applicants will need to provide three letters of recommendation, a statement of purpose, and a resume or curriculum vitae. Conditional admission may be granted in exceptional cases.

Master of Science in Materials Science and Engineering (MSMSE)

Applicants who have received a bachelor of science degree in engineering or a related science field such as materials science, physics, or chemistry from an accredited university, and who meet University graduate admission requirements, will be considered for regular admission. Applicants will need to provide three letters of recommendation, a statement of purpose, and a resume or curriculum vitae. Conditional admission may be granted in exceptional cases.

Doctorate in Mechanical Engineering (PhD)

A Master of Science degree in Mechanical Engineering, or a closely related field, is required for students applying to the mechanical engineering PhD program. Applicants will need to provide three letters of recommendation, a statement of purpose, a resume or curriculum vitae, and current GRE scores. GRE scores are not required if the master's degree was completed at PSU. Additional admission requirements and details are published on the MME department web site at www.pdx.edu/mme.

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

The Master of Science in Mechanical Engineering provides advanced coursework and research within the various facets of mechanical engineering. Strongly tied to local industry and international partnerships, the program supports research in microfluidics, fluid flow in microgravity, manufacturing, electronic packaging, engineering science and energy conservation in the built environment. Current faculty research areas include energy systems, electronic cooling, dynamic systems modeling, computational mechanics, thermo-fluid systems, and FEM applications in mechanical design.

Candidates must meet the requirements of the University and the Department for the MSME degree. The program

offers three tracks: thesis, project and coursework-only. For all tracks, candidates must complete 45 graduate credits, which include ME 551, up to 2 credit hours of ME 507 and at least one approved graduate level mathematics course (coursework-only candidates may complete an approved statistics course).

Candidates pursuing the thesis option must complete 9 thesis credits (ME 503). Those pursuing the project option must complete 6-9 research credits (ME 501). All candidates can apply up to 17 credit hours in total of ME 501, ME 503, ME 504 (maximum 6 credits), ME 505, and ME 506 to their degree. Candidates may apply a maximum of 8 credit hours of approved non-mechanical engineering credits toward their electives.

All candidates must submit a study plan approved by their advisor by the beginning of their third term. Updates to the study plan may be requested by the advisor or the graduate committee. Student research (thesis or project) is conducted under the supervision of faculty and a final oral examination covering the thesis or project must be successfully completed.

MASTER OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING

The Master of Science in Materials Science and Engineering degree provides advanced coursework and research that blends basic materials science with fundamental engineering principles and practice. Closely tied to industry needs and applications, the program supports research in nanomaterials, semiconductor materials, biomaterials, composites, metallurgy, welding, micro-joining, manufacturing, computational modeling, materials synthesis, post-treatment, and characterizations. The flexibility of the program structure encourages students to explore research not only in conventional disciplines, but also in inter- or multi-disciplines. There are many research thrusts in this program that span a wide range of cutting-edge and cross-disciplinary areas.

Candidates must meet the requirements of the University and the Department for the MSMSE degree. The program offers three tracks: thesis, project, and coursework only. For all tracks, the candidate must finish 45 graduate credits. Among these credits, a minimum of three core courses selected from ME 513 or MSE 513, MSE 547, MSE 515, ME 527, ME 528, ME 529, ME 576, and ME 578 are required. One credit of seminar course of ME 507 is also required. If the candidate chooses the thesis option,

a total of 6-9 MSE credits will be received after successful completion of the defended thesis. If the candidate chooses the project option, a total of 6-9 MSE 501 credits will be received after successful completion of the project report and a departmental-level presentation. For the rest of the credits, the candidate can obtain them from a set of specialty courses approved by the student program committee. If the candidate chooses the course-only option, a minimum of five core courses selected from the list mentioned above is required. The rest of the graduate credits can be chosen from electives recommended by the student program committee. For all tracks, a maximum of two credits of ME 507 or approved seminar can be applied to the degree.

Each student is assigned to an advisor upon acceptance to the program, and the advisor will be the primary contact for the student in the Department. The student program committee, a group of three faculty members, will meet with each student twice per year to review the course of study that the student and advisor have chosen and to monitor overall program quality.

DOCTORATE IN MECHANICAL ENGINEERING

The PhD program in Mechanical Engineering aims to educate technical experts and researchers to fill leadership roles in industry, research and education. The program culminates in a written dissertation representing an original contribution to knowledge in the field. Research areas for the degree include, but are not limited to, bioengineering, building science and energy systems, controls and dynamics, fluid mechanics, heat transfer, materials science, and mechanical design. Candidates for the PhD must meet the University requirements for the degree in addition to the requirements listed below.

In addition to the University doctoral degree requirements (p. 54), the program requirements include a minimum of 27 credit hours of Mechanical Engineering coursework, a comprehensive examination, prospectus defense, 27 credit hours of dissertation and final dissertation defense. The 27 credit hours of Mechanical Engineering coursework must consist of a minimum of 8 credits of 600-level courses, which can include up to 3 credits of ME 607 seminar. For further information on admission and degree requirements, current course schedule, and research opportunities, students should refer to the Department web site: www.pdx.edu/mme.

COLLEGE OF LIBERAL ARTS AND SCIENCES

Karen Marrongelle, Dean
 DeLys Ostlund, Associate Dean of Faculty
 Matt Carlson, Associate Dean of Undergraduate Programs
 Todd Rosenstiel, Associate Dean of Research and Graduate Programs
 Jim Adkins, Assistant Dean of Finance and Administration
 341 Cramer Hall, 503-725-3514
www.pdx.edu/clas

The College of Liberal Arts and Sciences provides an opportunity for students to obtain a liberal education—an education that both broadens and deepens their understanding of the major areas of knowledge and scholarship, and develops their expertise in an area of specialization. A liberal education is an education for life. It prepares students to make informed decisions about their lives and to think critically and analytically.

All students—Liberal Arts and Sciences majors as well as those from professional schools and programs—take a selection of courses that represent the three areas of the college: arts and letters, science, and social science. Course offerings range from those designed to provide a foundation for all baccalaureate degrees to those of an advanced, specialized nature.

Acquiring a balanced and integrated liberal education requires planning and consultation with an adviser. Faculty advisers in each department and program are available to help students structure their academic careers so they may get the most from their college experience.

The instructional units of the college include Anthropology (p. 196), Applied Linguistics (p. 199), Biology (p. 204), Black Studies (p. 187), Chemistry (p. 210), Chicano/Latino Studies (p. 189), Communication (p. 215), Conflict Resolution (p. 217), English (p. 220), Environmental Science and Management (p. 228), Geography (p. 236), Geology (p. 241), History (p. 247), Indigenous Nations Studies (p. 190), Judaic Studies (p. 255), Mathematics and Statistics (p. 257), Philosophy (p. 274), Physics (p. 276), Psychology (p. 288), Sociology (p. 291), Speech and Hearing Sciences (p. 293), Systems Science (p. 297), Women, Gender, and Sexuality Studies (p. 192), and World Languages and Literatures (p. 303).

Undergraduate programs

Baccalaureate Degrees

The College of Liberal Arts and Sciences is a large and diversified unit offering more than 20 majors (some with additional choices of sub-specialization), several academic certificates and teaching endorsements, and numerous departmental minors, as well as a minor in computer applications.

The college also offers a selection of alternative programs for students who are highly motivated and who have a record of high scholarly achievement. Students may obtain information concerning any one of several departmental honors tracks from the participating department. These programs generally allow an accelerated exposure to higher education, thereby broadening the experience of the student.

All majors in the College of Liberal Arts and Sciences, along with University and general education requirements, lead to a bachelor's degree. Requirements for each major are listed under the appropriate department. (Students wishing to emphasize a broad study in arts and letters, science, or social science may do so by majoring in liberal studies. For these options see Interdisciplinary Studies: Arts and Letters, Social Science (p. 254).)

Certificates

Specialized academic certificates are offered by several units in the College of Liberal Arts and Sciences: Applied Linguistics/TESL, Chicano/Latino Studies, World Languages/Teaching Japanese, Revitalizing Endangered Indigenous Languages, and postbaccalaureate certificates in Black Studies and Women, Gender, and Sexuality Studies. (Refer to the appropriate department for certificate requirements.) Requirements for these certificates are met concurrently with completion of a major in a selected field.

Secondary teaching licenses allow the student to teach the selected discipline at specified grade levels in public schools in Oregon. Recommended courses for those preparing to be teachers are listed under appropriate departments.

Minors

The following departments and programs in the College of Liberal Arts and Sciences offer academic minors: Anthropology, Applied Linguistics, Biology, Black Studies, Chemistry, Chicano/Latino Studies, Classical Studies, Communication, English, Environmental Geology, Environmental Studies, Film Studies, Geographic Information Systems, Geography, Geology, History, Indigenous Nations Studies, Judaic Studies, Mathematics and Statistics, Medieval Studies, Philosophy, Physics, Pre-Education (Elementary Education, Elementary Science, Secondary Education, and Special Education), Psychology, Sociology, Sustainability, Women, Gender, and Sexuality Studies, World Languages and Literatures (Arabic, Chinese, French, German, Italian, Japanese, Persian, Russian, Spanish, and Turkish), and Writing. (Students majoring in a field of study outside Liberal Arts and Sciences also may declare an academic minor in one of these programs.) The requirements for

these minors are indicated within the appropriate department sections of this Bulletin.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for the College of Liberal Arts and Science's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

HIGH SCHOOL COLLEGE PROGRAMS

503-725-3430

Sally Hudson, Director

Joy Beckett, Coordinator

Challenge Program

The Challenge Program is a cooperative program between Portland State University and metropolitan area high schools. It provides eligible high school juniors and seniors an opportunity to take regular PSU college courses on their own campuses at reduced cost.

Students who have a minimum cumulative grade point average of 3.00 and have met course prerequisites are eligible to enroll in Challenge courses offered in their high school.

The Challenge Program currently offers introductory college courses in Economics, English, World Languages and Literatures, History, Mathematics, Geology, PSU Honors, and Computer Science. Course content is equivalent to that offered to Portland State University students on the home campus. College-level texts and materials are used.

Students who successfully complete their Challenge Program coursework are entitled to a regular Portland State University transcript. The credit earned by the student can be transferred to many colleges and universities regionally and nationally.

More information is available at <http://www.pdx.edu/challenge-program>.

Graduate programs

There are many options available for graduate study within the College of Liberal Arts and Sciences. Currently students may specialize in any one of the many master's programs, or four doctoral programs.

Master of Arts and Master of Science programs

Master of Arts and Master of Science degrees are designed for the student who wishes to conduct advanced studies in a particular discipline. Generally the programs are flexible enough for students, with the aid of an adviser, to design a

program of study that allows them to pursue their particular interest. The requirements of each discipline are listed under the departments that have the M.A./M.S. option available.

Doctoral Programs

Many departments in the College of Liberal Arts and Sciences participate in one or more multi-disciplinary doctoral programs: Earth, Environment, and Society, Systems Science, and Urban Studies. They also offer the doctorate in mathematics education and mathematical sciences. The doctoral degree is for the person who wants the most advanced academic degree, generally with a life-long objective of expanding the scope of knowledge of a specialized field of study. The specific requirements of each available option are listed under the participating departments and programs.

Earth, Environment and Society Ph.D.

EARTH, ENVIRONMENT AND SOCIETY PH.D.

The Earth, Environment, & Society (EES) doctoral program provides an opportunity for the student to engage in relevant research while acquiring advanced academic training in Environmental Science and Management, Geography, or Geology. One of the goals of the program is to provide a broadly based understanding of one of the above the fields coupled with scientific training in one or more specialty areas. The student will follow a program of study and research approved by the EES program. The graduating student will be awarded a degree in Earth, Environment, & Society.

ADMISSION REQUIREMENTS

Applicants for admission to the Earth, Environment, & Society (EES) doctoral program normally will be expected to have completed a Bachelor's or Master's degree in a related field that will have prepared them to become engaged in state-of-the-art research.

DEGREE REQUIREMENTS

In addition to the requirements listed above, each student must complete the following.

At least 81 credits past the bachelor's degree and the following courses:

Course requirements

- Four credits of seminar, which may be satisfied by any combination of ESM/G/Geog 507 Speakers Series, ESR 655/ESR 656/ESR 657 Professional Prep series, Research Group Seminars at the departmental 500 level, and Journal Clubs offered in the student's area at the departmental 500 level (4 credits);

- Two credits of professional development, ESR 655 and ESR 656 or other similar courses recommended by the Advisory Committee and subject to approval by the EES doctoral program director (2 credits);
- One course in research methods, such as ESM 566, ESM 567, G 523, Geog 525, Geog 597, Geog 694, USP 683, Soc 592 or other similar course recommended by the Advisory Committee and subject to approval by the EES doctoral program director (3-4 credits);
- Dissertation credits (27 credits).

Subtotal: 36-37

Substitutions for the courses listed above may be granted by petitioning the EES doctoral program director.

Subtotal: 36-37

ADDITIONAL REQUIREMENTS

In addition to the general requirements, each student will be required to complete any coursework necessary to indicate competence in environmental scholarship at the graduate level, as determined by the Advisory Committee. It is required that all EES doctoral students take at least one 1-credit seminar course (as defined above) for every term they're in residence until advancing to candidacy.

Dissertation

The student must submit a prospectus outlining a proposed research project suitable for the doctoral dissertation in Earth, Environment, & Society. This is done under the guidance of the student's adviser and is approved by the Dissertation Committee and the Director of the Earth, Environment, and Society doctoral program. The research for the dissertation is conducted under the guidance of the student's dissertation committee. After the dissertation is complete and after advancement to candidacy (see below), a final oral defense will be conducted, open to the public, within the subject area of the dissertation.

Advancement to candidacy

As soon as the student has successfully completed the course and comprehensive examination requirements and has had the dissertation prospectus approved, the student is recommended for advancement to candidacy for the degree of Doctor of Philosophy. This recommendation is approved by the dean of Graduate Studies.

Financial support

There are a limited number of teaching assistantships and research assistantships available that are offered through

the College and through the constituent departments (ESM, Geography, Geology).

Withdrawal

Any student who ceases to be enrolled for more than one academic term without formal leave of absence will be assumed to have withdrawn from the degree program and will be formally dropped from it. Students who fail to make satisfactory progress toward the degree may be dropped from the program.

The student can be readmitted only by formal application, subject to all current admission requirements. In addition, completion of the degree will be subject to the student's meeting all current degree requirements.

Leave of absence

Under special circumstances, requests for a leave of absence may be approved.

School of Gender, Race, and Nations

150 Parkmill (PKM)

503-725-9093

www.pdx.edu/gender-race-nations/
sgrn@pdx.edu

- Graduate Certificate in Gender, Race, and Nations

Black Studies

150 Parkmill (PKM)

503-725-3472

www.pdx.edu/blackstudies

Chicano/Latino Studies

150 Parkmill (PKM)

503-725-8499

www.pdx.edu/chla

Indigenous Nations Studies

239 Parkmill (PKM)

503-725-5920

www.pdx.edu/nas

Women, Gender, and Sexuality Studies

150 Parkmill (PKM)

503-725-3516

www.pdx.edu/ws

The School of Gender, Race and Nations (SGRN) is comprised of four units: Black Studies (p. 208), Chicano/Latino Studies (p. 213), Indigenous Nations Studies (p. 252), and Women, Gender, and Sexuality Studies (p. 299). This collaboration is interdisciplinary at its core. The overarching areas evident in the school's name feature the rich constellation of interlocking and

challenging factors key to understanding our society and making changes for a more socially just future. Our goal is to create a space for excellence in studies and research of culture, race, ethnicity, sovereignty, nation, migration, class, gender and sexuality. The School of Gender, Race and Nations offers a graduate certificate (p. 187). Those who enroll in the GRN certificate program include those from existing graduate programs and professionals seeking additional grounding in such studies.

GENDER, RACE, AND NATIONS GRADUATE CERTIFICATE

CERTIFICATE REQUIREMENTS

Core Courses (8 credits)

GRN 515	Constructions of Power and Knowledge: Gender, Race, and Nations	4
GRN 520	Critical and Decolonizing Research Methodologies	4

Approved Electives (16 credits)

GRN 530	Social Justice Pedagogy	4
GRN 550	Seminar in Gender, Race, and Nations	4
	Other adviser-approved courses	

Subtotal: 24

Black Studies

150 Parkmill (PKM)
503-725-3472
www.pdx.edu/blackstudies

- B.A., B.S. in Black Studies
- Minor in Black Studies
- Postbaccalaureate Certificate in Black Studies

The Department of Black Studies is an academic interdisciplinary unit within the College of Liberal Arts and Sciences. It is one of four units in the School of Gender, Race, and Nations. The Department of Black Studies is devoted to the exploration and analysis of the history, politics, economics, literature, community, and culture of African people in the United States, the Caribbean/Latin America, and Africa. It seeks to research and teach about the black experience through the interdisciplinary contributions of its faculty by providing comprehensive learning programs aimed at greater understanding of by the historical and contemporary experiences of all African people in the U.S., Caribbean/Latin America, and Africa.

The Department of Black Studies provides students who opt for the Black Studies major, minor, certificate, or as an

addition to majors such as anthropology, English, sociology, community studies, history, etc., a variety of course offerings. These courses serve to expand students' breadth of knowledge in related courses offered by the department or as a complement to those in other departments. Students gain an understanding of the complex relationship of race, gender, class, economics, and politics. The Department of Black Studies is inclusive in its attempt to incorporate varied cultural themes such as music, literature, and film and social institutions like the family, religion, economics, and politics into its curriculum into its courses.

The program provides students with a general historical background of the black experience in Africa and the Western hemisphere, as well as locally. Students also examine contemporary cross-cultural and multi-ethnic dynamics and are encouraged to engage in study and/or civic engagement courses to support their interests in global and community studies. The Department of Black Studies prepares students to work with diverse communities and to apply for graduate studies in a variety of disciplinary and professional programs. It will also give students a crucial competitive advantage in obtaining careers in those areas and within communities that interact with African, African American, and Caribbean/Latin American cultures.

Students interested in any of the degree programs offered in the Department of Black Studies are strongly encouraged to enroll in BST 202: Introduction to Black Studies or any other 200-level course. Students should meet with the undergraduate advisor for assistance with course selection based on their interests. For students who plan to apply to graduate school, it is important that they meet with one of their professors, the undergraduate advisor, or the department chair during their junior year, in order to discuss options for courses to enhance their research skills, such as the practicum, reading and conference, or other experiential learning courses.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for the Black Studies Department's undergraduate degrees, go to www.pdx.edu/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

BLACK STUDIES B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements for completing a B.A. or B.S., candidates enrolled in the Black Studies major must meet the 60-credit minimum. Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling the major requirements in the area of specialization. At least 30 of the total 60 credits required for the major or 45 of the total credits presented for graduation must be taken in residence at Portland State University. A minimum 2.50 GPA is required in courses taken for the major. Students interested in declaring a major in Black Studies should see the department undergraduate advisor or the department chair for assistance with Black Studies course selection.

Core courses

BSt 202	Introduction to Black Studies	4
BSt 396	Research Methodologies in Black Studies	4
BSt 407	Seminar And Either	4
BSt 411	African American History Seminar	4
BSt 450	Topics in African/Caribbean History And Culture	4

Elective Courses

BSt	Two lower-division Black Studies courses	8
BSt	Six upper-division electives in Black Studies	24
	Three upper-division non-Black Studies courses or advisor-approved courses	12

Subtotal: 60

BLACK STUDIES MINOR

REQUIREMENTS

To earn a minor in Black Studies, a student must complete 28 credits (12 credits of which must be taken in residence at Portland State University). These courses must include eight credits in lower division, 12 credits in upper division, and eight upper-division advisor-approved credits chosen from departments in the College of Liberal Arts and Sciences. Students interested in declaring a minor in Black Studies should see the department undergraduate advisor or the department chair for assistance with Black Studies course selection.

Two courses chosen from: (8)

BSt 202	Introduction to Black Studies	4
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BSt 203	African American History I - Slavery to the Harlem Renaissance	4
BSt 204	African American History II - From the Depression Era to Civil Rights	4
BSt 206	Caribbean Studies	4
BSt 211	Introduction to African Studies	4

Five upper-division courses in Black Studies or courses with Black Studies related content (20)

Subtotal: 28

BLACK STUDIES

POSTBACCALAUREATE CERTIFICATE

REQUIREMENTS

Conferral of a B.A. or B.S. degree is a prerequisite for a certificate in Black Studies. Candidates for the Black Studies certificate must complete 36 credits with 24 of these credits in courses in Black Studies. Twenty-four credits will be upper-division courses within an area of specialization constructed with the consent of the adviser. Students interested in declaring a postbaccalaureate certificate in Black Studies should see the department undergraduate advisor or the department chair for assistance with Black Studies course selection.

CENTER FOR BLACK STUDIES

150 Parkmill (PKM)
503-725-3472

Established in 1969, the Center for Black Studies at Portland State University facilitates the study of the past and present experiences of black America. Among the goals of the center is to act as a forum between faculty members and students of different disciplines who share an interest in Black Studies; to collect and disseminate information which accurately reflects and helps improve the black experience; and to link the University and black communities by maintaining an active role in community service.

The center provides the University and the broader community with cultural activities and the stimulation of an exciting and enlightening intellectual atmosphere in the Portland community, contributing to greater understanding and cooperation between races. A lecture series brings to the campus and the Portland community black speakers of different disciplines and philosophies who have made notable contributions to society. The center promotes national and international activities in this area through the generation of grants, proposals, and programs that combine University staff, money, and expertise with resources from the government and the private sector.

Chicano/Latino Studies

150 Parkmill (PKM)
503-725- 8499
www.pdx.edu/chla

- Minor in Chicano/Latino Studies
- Certificate in Chicano/Latino Studies

Chicano/Latino studies is the interdisciplinary study of social, cultural, political, economic, and historical forces that have shaped the development of the people of Mexico and other Latin American countries in the United States over the past 300 years. Emphasis is on the experience of the Chicano and other Latinos as residents and citizens in the United States and not in their countries of origin or descent.

The Chicano/Latino experience predates from the mid-19th century when territories belonging to Mexico were occupied by the United States. Latinos living in the United States have, over the years, developed a rich and extensive literature. They have been involved in all aspects of American life and have made major contributions in all areas of society.

Graduates with a minor or certificate in Chicano/Latino studies will have augmented their major field of study by broadening their scope of knowledge. They will have gained important insight into a very different culture within U.S. borders. This increased awareness and insight will lead to successful interaction on many levels of society. Graduates also will be better prepared to enter the work force with its rapidly changing demographics.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Chicano/Latino Studies' undergraduate degrees, go to www.pdx.edu/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the program is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

CHICANO/LATINO STUDIES MINOR

REQUIREMENTS

In addition to meeting the general PSU requirements for a degree in any field, students pursuing a minor in

Chicano/Latino studies must complete 28 credits to be distributed as follows:

Core courses (16 credits)

ChLa 201	Introduction to Chicano/Latino Studies	4
ChLa 301U	Chicano/Latino Communities	4
ChLa 302U	Survey of Chicano/Latino Literature	4
ChLa 303U	Chicana/Latina Experience	4

Upper Division Electives (12 credits)

One 400-level course and two other from the following:

ChLa 325/Hst 325	Mexican American/Chicano History I, 1492-1900	4
ChLa 326U/Hst 326U	Mexican American/Chicano History II, 1900-Present	4
ChLa 330U	Latino Popular Culture	4
ChLa 335	Chicano/Latin American Film	4
ChLa 375U	Southwestern Borderlands	4
ChLa 380U	Latinos in the Economy and Politics	4
ChLa 390U	Latinos in the Pacific Northwest	4
ChLa 399	Special Studies	1-8
ChLa 405	Reading and Conference	1-8
ChLa 407	Seminar	1-8
ChLa 408	Workshop	1-8
ChLa 410	Selected Topics	1-8
ChLa 411	Chicano/Latino History Seminar	4
ChLa 414	Chicano/Latino Literature	4
ChLa 450U	Latinos in Education	4

Subtotal: 28

CHICANO/LATINO STUDIES CERTIFICATE

REQUIREMENTS

A candidate for a certificate must satisfy all University requirements for a baccalaureate degree with an academic major in any field. A Chicano/Latino Studies Certificate may be pursued as a post-baccalaureate program. A student pursuing a certificate in Chicano/Latino Studies must complete 36 credits, distributed as follows:

Core courses: (16 credits)

ChLa 201	Introduction to Chicano/Latino Studies	4
ChLa 301U	Chicano/Latino Communities	4
ChLa 302U	Survey of Chicano/Latino Literature	4
ChLa 303U	Chicana/Latina Experience	4

Spanish Language Proficiency (8 credits)

Span 301	Third-year Spanish	4
Span 302	Third-year Spanish	4

Upper-division electives from the following: (12 credits)

One 400-level course and two other from the following:

ChLa	Mexican American/Chicano	4
325/Hst 325	History I, 1492-1900	
ChLa	Mexican American/Chicano	4
326U/Hst	History II, 1900-Present	
326U		
ChLa 330U	Latino Popular Culture	4
ChLa 335	Chicano/Latin American Film	4
ChLa 375U	Southwestern Borderlands	4
ChLa 380U	Latinos in the Economy and Politics	4
ChLa 390U	Latinos in the Pacific Northwest	4
ChLa 399	Special Studies	8
ChLa 405	Reading and Conference	4
ChLa 407	Seminar	4
ChLa 408	Workshop	4
ChLa 410	Selected Studies	8
ChLa 411	Chicano/Latino History Seminar	4
ChLa 414	Chicano/Latino Literature	4
ChLa 450U	Latinos in Education	4
Subtotal: 36		

Indigenous Nations Studies

239 Parkmill (PKM)

503-725-9689

www.pdx.edu/nas/

- Minor in Indigenous Nations Studies
- B.A., B.S. in Indigenous Nations and Native American Studies

Indigenous Nations Studies (INST) is an interdisciplinary program with coursework drawn from emerging and Native scholars and interweaves Indigenous Ways of Knowing with elements from Anthropology, English, History, Public Administration, Social Work, and other departments and schools. The substantive focus of this curriculum is the sovereignty, scholarship and cultures of American Indians, Alaska Natives, and global Indigenous communities.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Indigenous Nations Studies' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the program is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

INDIGENOUS NATIONS STUDIES MINOR

The program offers a minor that is meant to serve three primary student constituencies:

- students who have a serious academic interest in Indigenous Ways of Knowing and who wish to combine the study of Native Epistemologies with their major;
- students who plan careers in non-profit, education, social services, tribal government, and academic sectors and wish to develop a diverse eye towards working with Native/Indigenous communities;
- students who have a nascent interest in Native/Indigenous communities and wish to fulfill their general education requirements with courses in this area.

The objective of the internship requirement is to place INST students in community or government organizations so that each student has an opportunity to acquire understanding of Native issues.

For information and advising, contact the Program Coordinator, Josh Powell at josh@pdx.edu.

REQUIREMENTS**Courses**

NAS 201	Introduction to Native American Studies	4
NAS 404	Cooperative Education/Internship	4

Upper-division credit courses chosen from the following (or other adviser-approved courses) 24 credits

Anth 364U	The Archaeology of the Pacific Northwest	4
Anth 365U	The Archaeology of North America	4
Anth 366U	The Archaeology of Mesoamerica	4
Anth 417	Advanced Topics in Native American Studies	4
Anth 422	Contemporary American Indian Policy	4
Anth 464	Topics in Northwest Archaeology	4
Eng 305U	Topics in Film	4
Eng 309U	Indigenous Nations Literature	4
Hst 330U	Native Americans of Eastern North America	4
Hst 331U	Native Americans of Western North America	4
Hst 349U	United States Indian Policy	4
Hst 464	Indians of the Pacific Northwest	4

NAS 301	Introduction to Native American Languages	4
NAS 417	Maintenance and Revitalization of Endangered Languages	4
Psy 410	Native American Psychological Healing	4
Psy 410	Native American Psychological Thought and Values	4
Subtotal: 28		

INDIGENOUS NATIONS AND NATIVE AMERICAN STUDIES B.A., B.S.

The Indigenous Nations and Native American Studies is pending approval from the Oregon Higher Education Coordinating Commission.

The major in Indigenous Nations and Native American Studies (INNAS) is 56 credits.

The major focuses on critical studies and practices of Tribal race theory, decolonizing methodologies, traditional and cultural ecological knowledge, and contemporary themes, such as community health, food sovereignty, Indigenous land/resource management, community development, resilience, and self-determination.

COURSE OF STUDY

Core Courses (24 credits)

NAS 201	Introduction to Native American Studies	4
NAS 344	Indigenous Women Leadership	4
NAS 346	Contemporary Issues in Indian Country	4
NAS 392	Indigenous Ways of Knowing	4
NAS 426	Tribal Critical Race Theory	4
NAS 442	Decolonizing Methodologies: Insurgent Research and Indigenous Education	4

Subtotal: 24

Experiential Learning Requirement (8 credits)

NAS 404	Cooperative Education/Internship	4
NAS 407	Traditional Ecological Healing Practices	4

Subtotal: 8

Electives (24 credits)

8 or more credits must be NAS courses; no more than 4 credits may be lower-division.

NAS 301	Introduction to Native American Languages	4
NAS 306	Red Power	4
NAS 334U	Topics in Film Genres and Movements	4

NAS 335U/Eng 335U	Topics in Literature and Film	4
NAS 342	Indigenous Gardens and Food Justice	4
NAS 348	Indigenous Practices for Environmental Sustainability	4
NAS 399	Indigenous Sciences	4
NAS 399	Native American Music	4
NAS 399	Native American Politics & Activism	4
NAS 399	Queer Indigenous Studies	4
NAS 399	Urban Indians	4
NAS 410	Decolonizing via Indigenous Art	4
NAS 411	Nationhood: Tribal Sovereignty, Governance & Policy	4
NAS 417	Maintenance and Revitalization of Endangered Languages	4
Anth 314U	Native Americans	4
Anth 320	Native Americans of the Northwest Coast	4
Anth 417	Advanced Topics in Native American Studies	4
Anth 422	Contemporary American Indian Policy	4
Anth 456	Issues in Cultural Resource Management	4
BSt 326U	Cuba, Dominican Republic, Puerto Rico	4
ChLa 303U	Chicana/Latina Experience	4
ChLa 331	Barrio Culture: Art and Literature	4
ChLa 375U	Southwestern Borderlands	4
ELP 410	Nonviolence, Sustainability & Education: Gandhi's Philosophy in Practice	4
Eng 309U	Indigenous Nations Literature	4
Hst 330U	Native Americans of Eastern North America	4
Hst 331U	Native Americans of Western North America	4
Hst 349U	United States Indian Policy	4
PS 432	Great Tribal Leaders	4
Psy 410	Native American Psychological Healing	4
Psy 410	Native American Psychological Thought and Values	4
SW 465	Introduction to Indian Child Welfare and the Indian Child Welfare Act	4
SySc 350U	Indigenous and Systems Perspectives on Sustainability	4

Subtotal: 24

NOTE: Other variable and special topic courses with a focus on Indigenous Nations, Native Americans, and American Indians/Alaska Natives may count as electives; in these instances students should consult with an INNAS advisor for approval.

Capstones

Students may complete these capstones as electives in INNAS, but must do so outside of their UNST graduation requirements.

UnSt 421	Cultural and Ecological Education	6
UnSt 421	Environmental Education Through Native American Lenses	6
UnSt 421	Indigenous Grantwriting	6
UnSt 421	Tutoring, Mentoring & Empowerment at NAYA	6
UnSt 421	Environmental Justice and Salmon	6

The minimum grade allowed to pass major requirements will be 1.7 C-. P/NP grading option are by arrangement only and subject to department approval.

Total Credit Hours: 56

Women, Gender, and Sexuality Studies

150 Parkmill (PKM)
1633 SW Park Ave.
503-725-3516
www.pdx.edu/ws/

- B.A., B.S.—Women's Studies
- B.A., B.S.—Sexuality, Gender, and Queer Studies
- Minor in Women's Studies
- Minor in Sexuality, Gender, and Queer Studies
- Postbaccalaureate Certificate in Women's Studies

In the School of Gender, Race and Nations, the Department of Women, Gender, and Sexuality Studies offers an interdisciplinary program designed to foster students' personal and intellectual development and to prepare them for socially responsible citizenship as well as a broad range of careers. Women, Gender, and Sexuality Studies advisers work closely with each student to craft a course of study appropriate to the student's academic interests and post-graduate goals.

An expanding field of scholarship, women, gender, and sexuality studies is on the cutting edge of educational and intellectual innovation. The department offers two different majors: the Women's Studies major, and the Sexuality, Gender, and Queer Studies major. The Women's Studies major encourages students to develop critical thinking skills and an appreciation for the range of theoretical frameworks and methodologies present in contemporary

feminist scholarship. Courses incorporate the diversity of women's experience with attention to race, class, and sexual orientation as well as gender. Core courses also encourage students' active participation through discussion, informal as well as formal writing, and collaborative learning in the classroom.

The major in Sexuality, Gender, and Queer Studies (SGQS) is designed to provide an in-depth study of sexual desire, sexual behavior and identity, gendered behavior, gender identity, and the sexed body as socially, culturally, and historically produced. The core curriculum emphasizes queer and trans of color theorizing and critiques including queer indigenous, Two-Spirit, and transnational perspectives; critical analysis of the relationships between sexuality and other power formations such as gender, race, class, nation, ability, nature, citizenship, age, and size; historical contexts and contemporary connections among rigorous theoretical, activist, political, and practice-oriented approaches; and an interdisciplinary, queer, and decolonial approach to analyses of the creative arts, humanities, and health and social sciences.

Experiential learning plays an important role in a student's progress through the women, gender, and sexuality studies curriculum. The program's extensive and long-established ties with organizations in the Metro area provide wide-ranging opportunities for students to apply their classroom knowledge in a community setting. Many students discover a life's vocation through these experiences, and all develop new skills. Guidelines for women, gender, and sexuality studies practica and independent study are flexible in order to meet individual needs. Degrees in Women's Studies and Sexuality, Gender, and Queer Studies provide the foundations for life-long learning as well as background and experience for careers in teaching, counseling and social work, business, law, health sciences, public administration, public relations, and academia.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Women, Gender, and Sexuality Studies' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See page for Admissions Requirements (p. 8) for more information.

WOMEN'S STUDIES B.A./B.S.

In addition to meeting the general University degree requirements, the student majoring in Women's Studies must complete a required core program of 36 credits and 20 credits of WS electives (with a minimum of 16 upper-division credits) for a total of 56 credits to complete the major.

Each student pursuing a Women's Studies major will select or be assigned an adviser who is knowledgeable in the student's area(s) of academic interest.

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling major requirements with the following exceptions: one Women, Gender, and Sexuality Studies elective course, WS 404 Cooperative Education/Internship, or WS 409 Practicum. The minimum grade allowed to pass major requirements will be 1.7 C-.

REQUIREMENTS

Core courses (28 credits)

WS 101	Introduction to Women's Studies	4
WS 301	Gender and Critical Inquiry	4
WS 305	Women of Color Feminist Theory	4
WS 307	Women, Activism and Social Change	4
WS 315	Feminist Analysis	4
WS 412	Feminist Methodologies	4
WS 415	Senior Seminar	4

Experiential learning (8 credits)

WS 409	Practicum	6
WS 411	Experiential Learning Seminar	2

Electives (20 credits; with a minimum of 16 upper-division credits)

WS 306U	Global Gender Issues	4
WS 308U	Topics in Gender, Literature, and Popular Culture	4
WS 310U	Psychology of Women	4
WS 312U	Feminist Philosophy	4
WS 317U	Writing as Activism	4
WS 320U	Introduction to Girls' Studies	4
WS 330U	Women of Color in the United States	4
WS 331U/Intl 331U	Women in the Middle East	4
WS 332U	Race, Class, Gender, and Sexuality in the United States	4
WS 337U	Communication and Gender	4
WS 340U	Women and Gender in America to 1848	4
WS 341U	Women and Gender in America 1848-1920	4
WS 342U	Women and Gender in the U.S. 1920 to the Present	4

WS 343U	American Family History	4
WS 346U/Bi 346U	Genes & Society	4
WS 347U/Sci 347U	Science, Gender, and Social Context	4
WS 348U/Sci 348U	Science, Gender, and Social Context	4
WS 351U	Gender and Education	4
WS 360U	Introduction to Queer Studies	4
WS 365U/Sci 365U	The Science of Women's Bodies	4
WS 367U	War, Sexual Violence and Healing	4
WS 369U	Global Reproductive Justice	4
WS 370U	History of Sexualities	4
WS 372U/Eng 372U	Topics in Literature, Gender, and Sexuality	4
WS 375U	Topics in Sexuality Studies	4
WS 377U	Topics in Feminist Spirituality	4
WS 380U	Women and Politics	4
WS 387	Feminist Organizations: Theory and Practice	4
WS 410	Selected Topics	1-6
WS 417	Women in the Economy	4
WS 424/PS 425	Women and the Law	4
WS 425/Soc 425	Sociology of Gender	4
WS 426/Soc 426	Gender & Mental Health	4
WS 428	Lesbian History	4
WS 431U/ArH 431U	Women in the Visual Arts	4
WS 444	British Women Writers	4
WS 445	American Women Writers	4
WS 451	Interrupting Oppression	4
WS 452/Comm 452	Gender and Race in the Media	4
WS 453	Feminism and Women's Health	4
WS 467	Work and Family	4
WS 470U	Asian American Women's Studies	4
WS 471	Global Feminisms	4
WS 479	Women and Organizational Psychology	4
WS 480	Introduction to Critical Disability Studies	4
WS 481	Disability and Intersectionality	4

Intl 360U	Bollywood: Communicating Contemporary South Asia through Cinema	4
JSt 335U	Sex, Love, and Gender in Israel	4
Subtotal: 56		

SEXUALITY, GENDER, AND QUEER STUDIES B.A./B.S.

In addition to meeting the general University degree requirements, the student majoring in Sexuality, Gender, and Queer Studies must complete a required core program of 36 credits and 20 credits of approved WS electives (with a minimum of 16 upper-division credits) for a total of 56 credits to complete the major.

Each student pursuing a Sexuality, Gender, and Queer Studies major will select or be assigned an adviser who is knowledgeable in the student's area(s) of academic interest.

REQUIRED COURSES

The major in Sexuality, Gender, and Queer Studies (SGQS) is 56 credits. Those credits are divided as follows:

Core Courses (28 credits)

UnSt 231	Gender & Sexualities	4
	or	
WS 332U	Race, Class, Gender, and Sexuality in the United States	4
WS 360U	Introduction to Queer Studies	4
WS 370U	History of Sexualities	4
WS 381	Queer of Color Theorizing and Perspectives	4
WS 412	Feminist Methodologies	4
WS 415	Senior Seminar	4
WS 482	Topics in Transnational Sexuality Studies	4

Experiential Learning Requirements (8 credits)

WS 409	Practicum	6
WS 411	Experiential Learning Seminar	2

Electives (20 credits)

20 credits of which 4 credits may be lower-division.

WS 308U	Lesbian Literature	4
WS 308U	Masculinities	4
WS 308U	Gender, Class, Culture	4
WS 372U/Eng 372U	Topics in Literature, Gender, and Sexuality	4
WS 375U	Topics in Sexuality Studies	4
WS 382U	Transgender Studies	4
WS 481	Disability and Intersectionality	4
Anth 432	Gender in Cross-Cultural Perspective	4

BSt 342U	Black Feminism/Womanism	4
CFS 340U	Queer Families	4
CFS 390U	Sex and the Family	4
Comm 337U	Communication and Gender	4
Comm 452/WS 452	Gender and Race in the Media	4
PHE 335U	Human Sexuality	4
PHE 453	Women's Reproductive Health	4
Phl 369U	Philosophy of Sex and Love	4
Psy 431U	Psychology of Men and Masculinities	4
Soc 344U	Gender and Sexualities	4
WLL 349	Forbidden Love	4

Other variable and special topic courses with a focus on sexuality may count as electives (e.g., FILM 370U Queer Cinema or Eng 494 Queer Theory); in these instances consult with a SGQS advisor for approval.

The minimum grade allowed to pass major requirements will be 1.7 C-. The only major requirement with a P/NP grading option is WS 409

Subtotal: 56

WOMEN'S STUDIES MINOR

REQUIREMENTS

A minor in Women's Studies will consist of 28 credits. Students will be required to take:

Core Courses (12 credits)

WS 101: Introduction to Women's Studies (4 credits), as well as two of the following courses:

WS 301	Gender and Critical Inquiry	4
WS 305	Women of Color Feminist Theory	4
WS 307	Women, Activism and Social Change	4
WS 315	Feminist Analysis	4
WS 412	Feminist Methodologies	4

Electives (16 credits)

Elective requirements may be fulfilled by any of the following core courses or by WS electives (see WS major electives listing (p. 193)), including courses cross-listed with other departments or approved by a WS adviser.

WS 409	Practicum	6
WS 411	Experiential Learning Seminar	2
WS 415	Senior Seminar	4

Subtotal: 28

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling minor requirements with the following exceptions: one Women, Gender, and Sexuality Studies elective course or WS 409 Practicum.

SEXUALITY, GENDER, AND QUEER STUDIES MINOR

The minor in Sexuality, Gender, and Queer Studies is an interdisciplinary program which examines sexual desire, sexual practice, gender expression, gender identity, and the sexed body as more than products of biology, but rather as socially organized, even socially produced phenomena located within specific power formations and subject to historical change. This program questions commonplace knowledge, providing new frameworks for the critical study of gender and sexuality. The curriculum includes a broad spectrum of topics related to sexuality and gender, from queer theory and film to the psychology of masculinities, the history of sexualities, and global issues in sexual health.

The minor consists of 32 credits, including four core courses (16 credits) and 16 credits of electives:

REQUIREMENTS

Core Courses

UnSt 231	Gender & Sexualities	4
WS 332U	Race, Class, Gender, and Sexuality in the United States	4
WS 360U	Introduction to Queer Studies	4
WS 370U	History of Sexualities	4

Electives

Electives must have a focus relevant to sexuality, gender, and queer studies in order to count toward the minor.

Elective credit may be fulfilled by the following approved courses or by other courses approved by the faculty adviser for the minor where appropriate.

Anth 103	Introduction to Social/Cultural Anthropology	4
Anth 432	Gender in Cross-Cultural Perspective	4
BSt 342U	Black Feminism/Womanism	4
CFS 340U	Queer Families	4
CFS 390U	Sex and the Family	4
Comm 452/WS 452	Gender and Race in the Media	4
Comm 410	Sex and the Media	4
Eng 372U	Topics in Literature, Gender, and Sexuality	4
Eng 494	Topics in Critical Theory and Methods	4
Eng 447	Major Forces in Literature	4

Eng 441	Advanced Topics in Renaissance Literature	4
PHE 335U	Human Sexuality	4
PHE 410	Sex Education in America	4
PHE 410	Worldview of Sexual Health	4
PHE 453	Women's Reproductive Health	4
Phl 369U	Philosophy of Sex and Love	4
Psy 410	Human Sexualities	4
Psy 431U	Psychology of Men and Masculinities	4
Soc 339U	Marriage and Intimacy	4
Soc 344U	Gender and Sexualities	4
Span 410U	Selected Topics	4
Span 436	Major Topics: Latin American Multiple Genres	4
WS 308U	Topics in Gender, Literature, and Popular Culture	4
WS 372U/Eng 372U	Topics in Literature, Gender, and Sexuality	4
WS 375U	Topics in Sexuality Studies	4
WS 381	Queer of Color Theorizing and Perspectives	4
WS 382U	Transgender Studies	4
WS 482	Topics in Transnational Sexuality Studies	4

Subtotal: 32

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling minor requirements with the exception of WS 409 Practicum if approved by a program adviser.

WOMEN'S STUDIES POST-BACCALAUREATE CERTIFICATE

The WS post-bac certificate consists of 24 required credits plus 16 approved upper-division electives for a total of 40 credits. In meeting the 16 elective credits, students may take a maximum of 12 credits in any one academic area (arts & letters; science; social science).

REQUIREMENTS

Core Courses

WS 301	Gender and Critical Inquiry	4
WS 315	Feminist Analysis	4
WS 412	Feminist Methodologies	4
WS 415	Senior Seminar	4
WS 409	Practicum	6
WS 411	Experiential Learning Seminar	2

Electives (16 credits; see elective listing under WS major)

Approved upper-division electives (minimum of 12 upper-division)	16
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Subtotal: 40

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling Certificate requirements with the following exceptions: one Women, Gender, and Sexuality Studies elective course, or WS 409.

Total Credit Hours: 40

Anthropology

141 Cramer Hall (CH)
503-725-3361
www.pdx.edu/anthropology

- B.A., B.S.
- Minor in Anthropology
- Secondary Education Program—Social Science
- M.A., M.S.

Anthropologists study human biological and cultural diversity through time and space and investigate the interplay between culture and biology. The discipline encompasses our closest primate relatives and the human experience from our earliest known bipedal ancestors to the modern world, from the smallest human groups to empires and multinational corporations. Anthropologists deal with prehistoric, historic, and contemporary peoples and with such topics as human evolution, subsistence and settlement systems, family, urban development, transnationalism, globalization, social conflict, gender, symbolic systems, and human ecology. Anthropologists apply the knowledge gained from diverse theoretical perspectives to practical human problems in settings such as health care, educational development, and natural and cultural resource management, among others. As scholars, we are committed to the highest quality teaching in the classroom and the field; to ongoing research both in Portland and abroad; and to active engagement in wider university and community programs.

The curriculum in anthropology is designed to develop an understanding of human life from these various perspectives. It does this by providing, both in general survey courses (Anth 101, Anth 102, Anth 103) and in its departmental major program, a balanced view in terms of the anthropological subfields of biological anthropology, archaeology, linguistics, and socio-cultural anthropology.

The departmental major program is of benefit to the liberal arts student in providing the most broadly based view of human adaptation, variation, and achievement. A variety of ethnographic courses is offered for people with particular regional or area interests, such as South, Southeast, or East Asia, Latin America, and the Pacific Northwest. Finally, the major provides the necessary general anthropological background for those interested in graduate study in the discipline.

Undergraduate program

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Anthropology's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

Limitations

Students majoring in anthropology should consult a department adviser no later than the beginning of the junior year. Selection of appropriate courses to supplement the student's major work should be made in consultation with the adviser. No student majoring in anthropology will be permitted to offer more than 72 credits of work in anthropology for the bachelor's degree. This limitation will be waived only through petition to the department.

ANTHROPOLOGY B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, the anthropology major must meet minimum departmental requirements as follows:

Courses

Anth 101	Introduction to Biological Anthropology	4
Anth 102	Introduction to Archaeology	4
Anth 103	Introduction to Social/Cultural Anthropology	4
Anth 304	Social Theory	4
Anth 305	or Cultural Theory	4
Anth 350	Archaeological Method and Theory	4
Anth 372	Human Variability	4
Anth 370	or Paleoanthropology	5
Ling 232	Language and Society	4
Ling 233	or Language and Mind	4
	or	

Stat 244	Introduction to Probability and Statistics II	4
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Students earning the B.S. are required to take Stat 244

NOTE: Anthropology B.A. majors must complete two years of a foreign language or demonstrate equivalent proficiency.

Subtotal: 52-53

ELECTIVE REQUIREMENTS

Upper-division electives shall be selected from at least two subfields of anthropology (biological anthropology, socio-cultural anthropology, or archaeology) and include at least one methods course (i.e., Anth 412, Anth 415, Anth 452, Anth 453, Anth 454, Anth 455, Anth 477, Anth 478, Anth 479). At least 16 of the 24 credits must be in 400-level courses. Four of the 24 credits may be in omnibus numbered-courses (i.e., Anth 401, Anth 404, Anth 405, Anth 407).

All anthropology courses used to satisfy the departmental major requirements must be taken for a letter grade and must have been assigned a grade of C- or better. Courses taken outside the department as part of departmental requirements (i.e. Ling 232, Ling 233 or Stat 244, World Languages and Literatures courses) may be taken pass/no pass (subject to the University limitations on the maximum number of hours taken pass/no pass) or for a letter grade. However, students who take these courses for a letter grade must earn a C- or better. Students must earn a cumulative grade point average of 2.00 or better in all courses required for the anthropology bachelor's degree (including those courses taken outside the department as part of departmental requirements).

ANTHROPOLOGY MINOR

REQUIREMENTS

To earn a minor in anthropology a student must complete 28 credits (12 credits of which must be taken in residence at PSU), to include the following:

Courses

Anth 101	Introduction to Biological Anthropology	4
Anth 102	Introduction to Archaeology	4
Anth 103	Introduction to Social/Cultural Anthropology	4

One of the following courses: (4-5 credits)

Anth 304	Social Theory	4
Anth 305	Cultural Theory	4
Anth 350	Archaeological Method and Theory	4
Anth 370	Paleoanthropology	5
Anth 372	Human Variability	4

Three upper-division anthropology electives	12
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(Upper-division electives must include at least one 400-level course, excluding courses numbered Anth 401, Anth 404, Anth 405, Anth 407)

Subtotal: 28-29

All anthropology courses used to satisfy the departmental minor requirements, whether taken in the department or elsewhere, must be graded C- or above. Students must earn a cumulative grade point average of 2.00 or better in all courses required for the anthropology minor (including those courses taken outside the department as part of departmental requirements).

Graduate programs

The Department of Anthropology offers the degrees of Master of Arts and Master of Science. The program is designed to give the student a graduate level of competence in general anthropology, including the major subfields of biological anthropology, archaeology, and social-cultural anthropology. At the same time, the program will permit the student to pursue a special interest in one of the subfields. Students have the option of choosing either the thesis track or the applied track. The thesis track candidate is required to do research in an area of special interest and prepare a thesis based upon it. The applied track is designed to prepare students for professional employment related to applied anthropology. Students in this track will complete an internship, an internship paper, and/or an internship deliverable, and 8 additional hours of coursework. They will also write a thesis; it is understood that the applied thesis will be shorter in length than a thesis written for the thesis track. For more information, interested students are urged to go to the Department's Web site: www.pdx.edu/anthropology.

The master's program has been planned for students who hold an undergraduate degree in general anthropology or its equivalent in course coverage. For students with this preparation, the master's degree, including research and thesis, may be completed in two to three years. Graduate applicants who lack an undergraduate major in Anthropology may be admitted to the program, but completion of the degree may require a more extended period of study. Students without an adequate background in anthropology will be required to take selected undergraduate courses to remove deficiencies. These courses normally do not offer graduate credit.

ADMISSION REQUIREMENTS

For admission to graduate study, the student must have a minimum of a 3.25 grade point average in anthropology courses and an overall GPA of 3.00. In addition, the applicant must submit GRE scores, a 500-word statement

indicating why he or she is interested in pursuing a graduate degree in anthropology, and a sample of written work (e.g., a term paper). All applicants must also arrange to have three letters of recommendation indicating professional promise addressed to the Department's Graduate Admission Committee. To facilitate scheduling of graduate courses, students ordinarily are admitted for fall term only.

ANTHROPOLOGY M.A./M.S.

THESIS TRACK

Of the 48 required credits, 36 must be in anthropology and must include:

Courses

Anth 511	Core Seminar in Social and Cultural Anthropology	4
Anth 550	Core Seminar in Archaeology	4
Anth 570	Core Seminar in Physical Anthropology	4
	Graduate-level Anthropology Electives (3 courses)	12
	Approved graduate-level electives (Anth, non-Anth)	8
	An adviser-approved, graduate-level course in research methods	4
Anth 501	Thesis Research	4
Anth 503	Thesis	8

Anth 511, Anth 550, Anth 570: Students may substitute an additional elective course for one of the core courses, with the approval of their adviser.

Graduate-level Electives: At least three of these courses (12 credits) must be in formally numbered graduate-level courses (i.e. courses numbered between Anth 510 - Anth 597 or Anth 610 - Anth 697). With graduate adviser approval, the remaining two courses (8 credits) may be in courses numbered 504 or 505 (i.e. Internship, Reading and Conference).

Adviser-approved Research Methods course: This course must be formally numbered and described in the PSU Bulletin. It may not be a course numbered 501/601, 502/602, 503/603, 504/604, 505/605, 506/606, 507/607, 508/608, 509/609.

Subtotal: 48

APPLIED TRACK

Of the 52 required credits, 36 must be in anthropology and must include:

Courses

Anth 511	Core Seminar in Social and Cultural Anthropology	4
Anth 550	Core Seminar in Archaeology	4

Anth 570	Core Seminar in Physical Anthropology	4
Anth 515	Applied Anthropology	4
	Graduate-level Anthropology Electives (2 courses)	8
	Approved graduate-level electives (4 courses at least 2 non-Anth)	16
	An adviser-approved, graduate-level course in research methods	4
Anth 503	Thesis Applied Track	6
Anth 504	Internship Applied Track	2

Anth 511, Anth 550, Anth 570: Students may substitute an additional elective course for one of the core courses, with the approval of their adviser.

Graduate-level Electives: At least three of these courses (12 credits) must be in formally numbered graduate-level courses (i.e. courses numbered between 510-597 or 610-697). With graduate adviser approval, the remaining two courses (8 credits) may be in courses numbered 504 or 505 (i.e. Internship, Reading and Conference).

Adviser-approved Research Methods course: This course must be formally numbered and described in the PSU Bulletin. It may not be a course numbered 501/601, 502/602, 503/603, 504/604, 505/605, 506/606, 507/607, 508/608, 509/609.

Subtotal: 52

Four calendar years from the term of admission will be the maximum time allowed to complete all requirements for a master's degree. Terms on approved leave of absence will be charged against the four-year limitation.

In addition to formal course requirements, the following are also necessary:

1. Candidates for an MA degree must fulfill the second language requirement. Options for meeting the graduate foreign language requirement for MA students include: A) Passing a course equivalent to PSU level 203 or higher. The Department of World Languages and Literatures will verify completion of the requirement upon evaluation of the student's academic record. B) Students who do not meet the course equivalent should contact the Department of World Languages and Literatures during the first term after their admission to schedule an oral proficiency interview or a written test. Ordinarily the examination is taken in French, Spanish, or German. Other languages may, upon departmental approval, be substituted. Students must complete the foreign language requirement no later than one calendar year following entrance to the program. Foreign Language Requirement Verification Request Forms should be submitted for completion to the Department of World Languages and Literatures and a copy should be given to the Anthropology Department.

2. Candidates for an MS degree are strongly encouraged to discuss with their advisers the selection of appropriate courses in science, math, and technical skills that would complement their course of study.
3. Advancement to candidacy involves successful passing (a minimum grade of B-) of the core seminars (Anth 511, Anth 550, Anth 570). Advancement to candidacy can only be accomplished before the close of the next-to-the-final term of work.
4. For the thesis track, approval of a thesis topic and the appointment of the graduate committee. For the applied track, approval of an internship contract and a thesis topic and the appointment of the graduate committee. The student develops a thesis proposal and submits it to the department faculty for approval and for the formal appointment of the graduate committee. Students should have a master's thesis proposal submitted to and approved by the department faculty as soon as possible following admission to the program, but in no case later than the end of the seventh term (excluding Summer Session) following admission to the program.
5. For students on the applied track, submission of internship deliverable and/or paper.
6. Presentation and approval of thesis.
7. Passing of an oral defense of thesis.

Applied Linguistics

Applied Linguistics
University Center Building (UCB), Suite 335
503-725-2040
www.pdx.edu/linguistics

- B.A.
- Minor in Applied Linguistics
- Certificate in Teaching English as a Second Language (TESL)
- M.A. in Teaching English to Speakers of Other Languages (MA TESOL)

Applied Linguistics programs

The Department of Applied Linguistics offers a B.A. in Applied Linguistics, a minor in Applied Linguistics, a Certificate in Teaching English as a Second Language (TESL), and an M.A. in Teaching English to Speakers of Other Languages (MA TESOL).

The B.A. major in Applied Linguistics provides a strong foundation in both analytic and communication skills while building students' understanding of the structure and use of human languages. It also serves as strong preparation for graduate study. A minor in Applied Linguistics allows students to integrate the development of language analysis

skills and a basic knowledge of language structure into a major in another field. The Certificate in Teaching English as a Second Language provides thorough undergraduate-level preparation for teaching. The MA TESOL provides graduate-level preparation for teaching, language consulting, and research.

Undergraduate programs

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Applied Linguistics' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

APPLIED LINGUISTICS B.A.

Admission requirements

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

REQUIREMENTS

In addition to meeting the general University requirements for the B.A. degree, majors must complete an adviser-approved program to include the following:

Required Courses	36 credits
Adviser Approved Electives	16 credits
Typologically Different Language from English/Language Structure Requirement	8 credits
Total credits for Applied Linguistics BA major	60 credits

REQUIRED COURSES 36 credits

300-level courses

Ling 390	Introduction to Linguistics	4
Ling 391	Introduction to Applied Linguistics	4
Ling 392	Structure of the English Language	4

400-level courses

Ling 407	Senior Seminar	4
Ling 411	Syntax	4

Ling 412	or Phonology	4
Ling 414	Linguistic Pragmatics	4
Ling 416	or Discourse Analysis	4
Ling 415	Linguistic Phonetics	4
Ling 435	Theories and Practice in Applied Linguistics	4
Ling 437	First Language Acquisition	4
Ling 438	or Second Language Acquisition	4

NOTE: Students should consult with the departmental undergraduate adviser to determine which of the paired options above is the more appropriate choice for their program of study.

1) Students interested in Focus (2) Structural/Analytical Linguistics Focus should take LING 420 Historical Comparative Linguistics and LING 437 First Language Acquisition.

2) Students interested in Focus (3) Understanding Classroom Language Focus should take LING 438 Second Language Acquisition and LING 490 History of English.

ADVISER APPROVED ELECTIVES 16 Credits

To create a coherent program from the options listed below, students are encouraged to choose electives within a single focus. They should meet with the departmental undergraduate adviser to determine which options are most appropriate for them. At least 8 of the 16 elective credits are required to be from PSU Linguistics courses. For a course not taken in PSU Linguistics to count toward the major, students must get approval from the chair or the departmental undergraduate adviser.

Here, we list the three focus options

Focus 1) Applied Linguistics General Focus

Intended for most majors, including students planning graduate study in applied linguistics.

Students planning graduate study in applied linguistics should consult with a faculty member about the best courses to take for the program they are interested in.

Required

Ling 432	Sociolinguistics	4
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Choose the remaining 12 credits from:

(Take the option not taken as a required course)

Ling 409	Activist Applied Linguistics Practicum	4
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Ling 414	Linguistic Pragmatics	4
Ling 416	or Discourse Analysis	4
Ling 418	Linguistic Morphology	4
Ling 419	Language Typology	4
Ling 433	Psycholinguistics	4
Ling 445	Linguistics and Cognitive Science	4
Ling 470	Grammar for TESOL	4
Ling 472	Teaching Pronunciation	4
Ling 476	Corpus Linguistics in Language Teaching	4
Ling 480	Bilingualism	4
Ling 481	World Englishes	4
Ling 490	History of the English Language	4
Ling 482	Pidgins and Creoles	4
Ling 410	Selected Topics	4

Ling 410 requires prior adviser approval.

Focus 2) Structural--Analytical Linguistics Focus

Intended for students planning graduate study in theoretical linguistics or with a particular interest in theory and analysis.

Students planning graduate study in theoretical linguistics should consult with a faculty member about the best courses to take for the program they are interested in. A formal logic course is strongly recommended.

Required

Ling 411	Syntax	4
Ling 412	or Phonology	4

(Take the option not taken as a required course)

Choose the remaining 12 credits from:

Ling 414	Linguistic Pragmatics	4
Ling 416	or Discourse Analysis	4
Ling 418	Linguistic Morphology	4
Ling 419	Language Typology	4
Ling 420	Historical and Comparative Linguistics	4
Ling 432	Sociolinguistics	4
Ling 433	Psycholinguistics	4
Ling 445	Linguistics and Cognitive Science	4
Ling 476	Corpus Linguistics in Language Teaching	4
Ling 480	Bilingualism	4

Ling 482	Pidgins and Creoles	4
Ling 490	History of the English Language	4
Ling 410	Selected Topics	4

Ling 410 requires prior adviser approval.

Focus 3) Understanding Language in the Classroom Focus

Intended for students interested in teaching, the TESL certificate or graduate work in education, including TESOL.

Students planning on completing the TESL certificate concurrently with the BA or planning to take the MA TESOL program after the BA should work with an adviser to carefully plan their program.

Choose 16 credits from:

Ling 409	Community ESL Practicum	4
Ling 416	Discourse Analysis	4
Ling 439	Language Assessment	4
Ling 470	Grammar for TESOL	4
Ling 472	Teaching Pronunciation	4
Ling 473	Computer Assisted Language Learning	4
Ling 476	Corpus Linguistics in Language Teaching	4
Ling 480	Bilingualism	4
Ling 481	World Englishes	4
Ling 490	History of the English Language	4
Ling 410	Selected Topics	4

LING 410 requires prior adviser approval.

TYPOLOGICALLY DIFFERENT LANGUAGE FROM LANGUAGE STRUCTURE REQUIREMENT 8 credits

All students must complete one of the three following requirements:

1. Take 2 terms of a single language that is typologically different from English (choose from: Arabic, ASL, Chinese, Hebrew, Japanese, Korean, Persian, Russian, Swahili, or Turkish).
2. Take 2 classes that focus on language structure across languages:

Ling 418	Linguistic Morphology	4
Ling 419	Language Typology	4
Ling 420	Historical and Comparative Linguistics	4
Ling 482	Pidgins and Creoles	4
Ling 410	Selected Topics	4

Ling 410 requires prior adviser approval

3. Take one term of a typologically different language and one language structure class.

All courses used to satisfy the department major requirements must be graded C or above. Courses taken pass/no pass are not acceptable toward fulfilling department major requirements. By the end of the first quarter of admission to the program, students must consult with the adviser to select the appropriate courses and areas of concentration. On completion the entire program must also be approved by the undergraduate adviser.

APPLIED LINGUISTICS MINOR

REQUIREMENTS

To earn a minor in applied linguistics a student must have a major in another department and must complete 28 adviser-approved credits (at least 24 credits of which must be taken in residence at PSU), to include the following:

Courses

Ling 390	Introduction to Linguistics	4
Ling 392	Structure of the English Language	4
	or	
Ling 411	Syntax	4
Ling 490	History of the English Language	4
	Linguistics electives (upper-division)	16

Subtotal: 28

All linguistics electives require prior approval by the departmental undergraduate adviser.

All courses used to satisfy the department minor requirements must be graded C or above. Courses taken pass/no pass are not acceptable toward fulfilling department minor requirements.

TEACHING ENGLISH AS A SECOND LANGUAGE (TESL) CERTIFICATE

The TESL Certificate provides undergraduate-level preparation to teach English to speakers of other languages. It is especially useful for people who want to teach in non-university settings internationally or limited situations in the U.S. The TESL Certificate also combines well with a major in a language-related field such as Applied Linguistics, World Languages and Literatures, Communication, Education, and other social sciences. Students may enroll in the program as undergraduates or as post-baccalaureate students.

Admission requirements

1. Admission to Portland State University.

2. English proficiency in spoken and written English if the student is not a native speaker of English (a TOEFL score report of 550 or 80 iBT or higher is required for proof of proficiency).
3. One year proficiency in at least one foreign language if the student is a native speaker of English. (Note: If not fulfilled at the time of admission, this requirement can be fulfilled concurrently with the Certificate courses.)

COURSE REQUIREMENTS

In addition to fulfilling minimum University requirements, the following adviser-approved courses are required:

Courses

Ling 390	Introduction to Linguistics	4
Ling 392	Structure of the English Language	4
Ling 438	Second Language Acquisition	4
Ling 439	Language Assessment	4
Ling 475	Curriculum Design and Materials Development in TESOL	4
Ling 471/Intl	Understanding the International Experience	4
Ling 477	TESOL Methods I	4
Ling 478	TESOL Methods II	4
	One language education elective (see below)	4
	Linguistics electives (upper-division)	8
Language education elective--choose from		
Ling 409	Community ESL Practicum	4
Ling 439	Language Assessment	4
Ling 470	Grammar for TESOL	4
Ling 472	Teaching Pronunciation	4
Ling 473	Computer Assisted Language Learning	4
Ling 475	Curriculum Design and Materials Development in TESOL	4
Ling 476	Corpus Linguistics in Language Teaching	4

Ling 410 can be used only with prior adviser approval.

Subtotal: 40

All courses used to satisfy certificate course requirements must be upper-division courses in which the student earns a mark of C or above. Courses taken under the undifferentiated grading option (P/NP) are not acceptable for department requirements. Before the end of the first quarter in the program, the student is required to consult with the departmental adviser to select the appropriate

courses and sequence. The entire program must be approved by the adviser.

Some courses used in the TESL certificate program can also be applied to obtaining the ESL/bilingual endorsement for public school teachers. Students seeking this endorsement must plan a program through the departmental adviser and must complete 100 hours of practice in the K-12 setting as well as other endorsement requirements.

Graduate program

MASTER'S IN TEACHING OF ENGLISH TO SPEAKERS OF OTHER LANGUAGES MA TESOL

The MA TESOL degree qualifies its recipients to teach English to speakers of languages other than English. It is increasingly the degree of preference for employers both in the United States and abroad, where it is generally a requirement for university-level teaching.

Admission requirements

1. Admission to graduate study at Portland State University.
2. Admission to the MA TESOL program. See the department website for application information (www.pdx.edu/linguistics)
3. Proficiency in English. If the student is not a native speaker of English and doesn't hold a valid B.A. degree or equivalent from an American university, a minimum TOEFL iBT score of 100 or IELTS 7.0 is required for admission.

REQUIREMENTS

Students must meet with an adviser regularly, starting in the first term of the program. A student's entire program must be approved by an adviser.

In addition to the minimum graduate school requirements, students must have an adviser-approved program that meets the criteria below. (For those students who have completed the Certificate in TESL, adviser-approved courses will be used to substitute for some of the following requirements.)

Prerequisites

Ling 390 Introduction to Linguistics or equivalent is a prerequisite to all courses except Ling 571. Students who have not taken an introductory linguistics course should complete Ling 390 before applying to the MA TESOL program or must take it as their first course.

Grammar Prerequisite: Students must (1) pass the departmental grammar test before admission or in their

first term, or (2) pass Ling 392 Structure of English with a B or better in their first or second term.

Courses

Overview of Course Requirements

1. Language Education/Applied Linguistics Theory Courses	20 credits
2. Foundations in Language and Linguistic Theory Courses	16 credits
3. Research Courses and Culminating Experience Credits	12 credits
Total credits for MA TESOL degree	48 credits

1. Language Education/Applied Linguistics Theory Courses

Required Courses

Ling 538	Second Language Acquisition	4
Ling 571	Understanding the International Experience	4
Ling 577	TESOL Methods I	4
Ling 578	TESOL Methods II	4

As part of the TESOL Methods requirement, students must submit a portfolio documenting a minimum of 70 hours of practical experience.

4 credits from the following

Ling 509	Community ESL Practicum	4
Ling 539	Language Assessment	4
Ling 570	Grammar for TESOL	4
Ling 572	Teaching Pronunciation	4
Ling 573	Computer Assisted Language Learning	4
Ling 575	Curriculum Design and Materials Development in TESOL	4
Ling 576	Corpus Linguistics in Language Teaching	4
Ling 510	Special topics (with adviser approval)	1-6

2. Foundations in Language and Linguistic Theory Courses

Choose 4 credits from Linguistic Analysis

Linguistic Analysis

Ling 514	Linguistic Pragmatics	4
Ling 515	Linguistic Phonetics	4
Ling 516	Discourse Analysis	4
Ling 520	Historical and Comparative Linguistics	4
Ling 510	Special topics (with adviser approval)	1-6

Choose 4 credits from the following courses:

Ling 511	Syntax	4
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Ling 512	Phonology	4
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Choose 8 credits from Language and Society and/or Language and Mind

Students may choose one course from each group or take both courses from a single group.

Language and Society

Ling 509	Community Activism Practicum	4
Ling 532	Sociolinguistics	4
Ling 580	Bilingualism	4
Ling 581	World Englishes	4
Ling 582	Pidgins and Creoles	4
Ling 510	Special topics (with adviser approval)	1-6

Language and Mind

Ling 533	Psycholinguistics	4
Ling 537	First Language Acquisition	4
Ling 545	Linguistics and Cognitive Science	4
Ling 510	Special topics (with adviser approval)	1-6

3. Research Courses and Culminating Experience Credits

Research Courses (12 credits)

Ling 559	Introduction to Graduate Study in Applied Linguistics	2
Ling 560	Research Design for Applied Linguistics	2
Ling 561	Research Methodology for Applied Linguistics	2

Culminating Experience Options

Thesis/project/exams	6
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Subtotal: 48

Culminating Experience: In consultation with their adviser, students choose one of three options.

- (1) Thesis. The thesis requires students to conduct an analysis of data that they have gathered to answer a research question that deals with a specific aspect of TESOL or applied linguistics. Students choosing the Thesis option must take 6 credits of Ling 503 (Thesis).
- (2) Project. The project addresses a practical problem or need in the field of TESOL or applied linguistics and presents a solution to it. Rather than an academic thesis, the project may, for example, be a curriculum plan for a specific course or teaching materials to supplement a textbook. Students choosing the Project option must take 4 credits of Ling 507 (Seminar: Empirical Research Writing) and 2 credits of Ling 506 (Project).
- (3) Comprehensive Exams. The comprehensive examinations ask students to synthesize theoretical and practical knowledge covered in the program. Students

choosing the Exam option must take 4 credits of Ling 507 (Seminar: Empirical Research Writing) and 2 credits of Ling 501 (Research: Comprehensive Exams).

The thesis, project, and comprehensive exams will conform to departmental guidelines for details such as thesis proposal meetings, exam scoring, and formatting. Thesis and project students make a final oral presentation about their work.

All courses need to be passed with a grade of “B” or better in order for them to count toward this degree. Ling 507 (Seminar) and Ling 510 (Selected Topics) will count for credit in Language Education/Applied Linguistics Theory, Foundations in Language and Linguistic Theory, Language and Society/ Mind, depending on course content, as determined by the student’s adviser.

Additionally, the department and the university require at least two years’ study of a language in addition to the student’s native language or an equivalent level of proficiency in a non-native language. For non-native speakers of English, proficiency in English as described above fulfills this requirement. For native speakers of English, two years of college-level study of an additional language as documented by a transcript fulfills this requirement. Students who have not already had two years or the equivalent of an additional language at the college level can complete the graduation requirement while working on the M.A. (though doing so will lengthen the time for completing the degree).

Persons interested in applying for the MA TESOL Program should write to the Department of Applied Linguistics at linginfo@pdx.edu or visit the department’s website at www.pdx.edu/linguistics for additional information. Regular information sessions are held for prospective students. Contact the department for details.

Biology

246 Science Research and Teaching Center (SRTC)
503-725-8757
www.pdx.edu/biology

- B.A., B.S.
- Minor
- Secondary Education Program
- M.A., M.S.
- M.A.T. and M.S.T. (Science/Biology)
- Ph.D.—Biology

Academic Affiliations and Cooperative Programs

The Center for Life in Extreme Environments (CLEE) is housed at Portland State University and includes faculty members and students who study organisms from some of

the most extreme habitats on Earth. Cooperative programs at Portland State University include the Marine Mammal Stranding Network, Oregon Zoo, Malheur Field Station, Oregon Health Sciences University, Oregon National Primate Research Center, Oregon Museum of Science and Industry (OMSI), and the Oregon Department of Fish and Wildlife. The Oregon University System maintains the Institute of Marine Biology near Coos Bay and The Hatfield Marine Sciences Center in Newport on the Oregon coast.

Undergraduate programs

The biology program is designed to prepare students for careers in biological research, development, teaching, and in health sciences, nursing, biotechnology, conservation biology and wildlife management, forestry, and other applied fields. It also provides the necessary background for advanced study leading to graduate degrees in the more specialized fields of the biological sciences.

A student planning to enter medicine, dentistry, or other professional fields should consult the catalog of the professional school to which the student intends to apply following pre-professional work in biology and other sciences at Portland State. Biology is also a teaching endorsement area in the program of secondary education.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Biology's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

BIOLOGY B.A./B.S.

REQUIREMENTS

In addition to satisfying general University requirements, a student majoring in biology must meet general department requirements as well as fulfill the biology major requirements.

General requirements are completion of two terms of statistics or two terms of calculus; three terms of science majors’ introductory chemistry with laboratory; one term of organic chemistry; Ph 201, Ph 214; and 12 elective credits from geology, physics, computer science,

environmental science, or chemistry at the 200 level or higher. All biology majors must complete at least 60 credits in biology including three terms of science majors' introductory biology with laboratory. Of the 60 credits in biology at least 44 credits must be upper-division coursework for the major.

Biology courses taken pass/no pass are not acceptable toward fulfilling departmental major requirements, with the exception of courses numbered Bi 401, Bi 404, Bi 405, Bi 406, and Bi 407 which are only offered pass/no pass. Of the 60 credits required in biology, at least 46 credits must be in courses other than Bi 401, Bi 404, Bi 405, Bi 406, and Bi 407. The remaining 14 credits may include no more than a total of 6 credits in Bi 401, Bi 404, Bi 405, and Bi 406.

Biology majors interested in the Biology Honors Research Program may obtain information in the Biology Dept. Office.

General Departmental Requirements

All Biology majors must complete the coursework listed below in addition to the Biology major requirements.

Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 223	General Chemistry III	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ch 229	General Chemistry Laboratory	1
Ch 331	Elements of Organic Chemistry I	4
Ch 334	or Organic Chemistry I	4
Ph 201	General Physics	4
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Mth 251	Calculus I &	4
Mth 252	Calculus II	4
Stat 243	Introduction to Probability and Statistics I &	4
Stat 244	Introduction to Probability and Statistics II	4
	Science Electives: Any combination of courses at the 200+ level (not including requirements listed above) from the following departments: Ch, ESM, G, Ph, or CS	12

Biology Major Requirements

Lower Division Biology Core

Enrollment requires concurrent enrollment in Ch 221 & Ch 227 or prior completion of Ch 221 & Ch 227

Bi 211	Principles of Biology: Molecular Cell Biology & Genetics	4
Bi 212	Principles of Biology: Development, Evolution & Ecology	4
Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4
Bi 214	Principles of Biology Lab I	1
Bi 215	Principles of Biology Lab II	1
Bi 216	Principles of Biology Lab III	1

Upper Division Biology Core

Complete a minimum of 44 upper division Biology credits and satisfy Requirements 1, 2, and 3 below

Requirement 1

Complete at least one course from each of Areas A, B, and C

Area A: Cellular/Molecular

Bi 334	Molecular Biology	4
Bi 336	Cell Biology	5
Bi 341	Introduction to Genetics	4

Area B: Systems/Organisms

Bi 320	Introduction to Organismal Physiology	4
Bi 330	Introduction to Plant Biology	4
Bi 380	Microbiology	4
Bi 386	Invertebrate Zoology	6
Bi 387	Vertebrate Zoology	6

Area C: Ecology/Evolution

Bi 357	General Ecology	4
Bi 358	Evolution	4

Requirement 2

Choose at least two courses at the 300 or 400 level with a major laboratory or field component. Bi 386 and Bi 387 will satisfy Requirement 2 only if the course is not used to satisfy Requirement 1

Approved Lab--Field Courses Choose at least two

Bi 301	Human Anatomy and Physiology	4
Bi 302	Human Anatomy and Physiology	4
Bi 303	Human Anatomy and Physiology	4
Bi 326	Comparative Vertebrate Embryology	5

Bi 328	Comparative Vertebrate Anatomy	5
Bi 337	Cell Biology Laboratory	1
Bi 361	Introduction to Marine Biology Laboratory	1
Bi 386	Invertebrate Zoology	6
Bi 387	Vertebrate Zoology	6
Bi 388	Microbiology Techniques	2
Bi 413	Herpetology	6
Bi 414	Ornithology	6
Bi 415	Mammalogy	6
Bi 416	Marine Mammals	6
Bi 431	Advanced Molecular and Cell Biology Research Laboratory	2
Bi 432	Plant Diversity and Evolution	5
Bi 441	Plant Physiology	5
Bi 450	Phylogenetic Biology	4
Bi 455	Histology	6
Bi 471	Plant Ecology	4
Bi 473	Field Sampling	4
Bi 476	Population Ecology	5

Requirement 3

Choose at least 12 credits from courses with a Bi prefix numbered between 412-499 (can include courses listed in Requirement 2, but cannot be counted twice)

Additional Courses That Meet the 44 Credit Upper Division Requirements**1. Research Teaching and Workshops with credit limitations**

A maximum of 6 credits total from Bi 401 Research, Bi 404 Cooperative Education, Bi 405 Reading and Conference, Bi 406 Laboratory Project may be applied to the 44 credit upper-division Biology credit requirement

2. Courses approved for use from other departments from the list below

A maximum of 8 credits taken at the 300-400 level and passed with a C- or better from the following departments may be applied toward major requirements with prior Biology department approval. These credits cannot be substituted for those in Areas A, B, and C, or for the Bi 412 - Bi 499 credit requirements.

Anthropology (Anth)	Business (BA)	Chemistry (Ch)
Computer Science (CS)	Economics (Ec)	Environmental Science and Management (ESM)
Geography (Geog)	Geology (G)	Philosophy (Phl)

Physics (Ph)	Psychology (Psy)	Public Health Education (PHE)
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Statistics (Stat)

Subtotal: 27-30

BIOLOGY MINOR**REQUIREMENTS**

To earn a minor in biology, a student must complete at least 27 -credits in Biology (at least 9 credits of which must be taken in residence at PSU). Courses must include three terms of science majors' introductory biology with laboratory (BI 211/214, BI 212/215, BI 213/216) and at least one course from each of Areas A, B, and C.

Lower Division Biology Core**Enrollment requires concurrent enrollment in Ch 221 & Ch 227 or prior completion of Ch 221 & Ch 227**

Bi 211	Principles of Biology: Molecular Cell Biology & Genetics	4
Bi 212	Principles of Biology: Development, Evolution & Ecology	4
Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4
Bi 214	Principles of Biology Lab I	1
Bi 215	Principles of Biology Lab II	1
Bi 216	Principles of Biology Lab III	1

Upper-division credits to include at least one course from each of the following three areas:**Area A: Cellular/Molecular**

Bi 334	Molecular Biology	4
Bi 336	Cell Biology	5
Bi 341	Introduction to Genetics	4

Area B: Systems/Organisms

Bi 320	Introduction to Organismal Physiology	4
Bi 330	Introduction to Plant Biology	4
Bi 380	Microbiology	4
Bi 386	Invertebrate Zoology	6
Bi 387	Vertebrate Zoology	6

Area C: Ecology/Evolution

Bi 357	General Ecology	4
Bi 358	Evolution	4

Subtotal: 27-30

Courses taken under the undifferentiated grading option (pass/no pass) cannot be used to fulfill biology minor

requirements. Bi 401, Bi 404, Bi 405, Bi 406, and Bi 407 are not allowed for the minor. Additional courses may be required as prerequisites.

SECONDARY EDUCATION

Adviser: Dr. Sarah Eppley

Students who wish to teach biology in secondary schools should complete one of the two programs shown. Courses are to be taken for differentiated grades, except for those offered for pass/no pass only. Students must have at least a 3.00 GPA in the recommended science courses and must earn at least a C in each course of the endorsement area. Students should also take Psy 311.

REQUIREMENTS

Biology majors

The student must complete a biology major's program as outlined above, and include an upper-division course each in microbiology, ecology, genetics, cell biology, and evolution. (See adviser.)

Nonbiology majors

	One year-long sequence in introductory biology	12-15
Bi 234	Elementary Microbiology	4
Bi 235	Microbiology Laboratory	2
	Two upper-division courses in anatomy and/or physiology	8
Bi 341	Introduction to Genetics	4
Bi 357	General Ecology	4
Bi 358	Evolution	4
	Upper-division biology elective in botany or field oriented course	4
	Physical science electives as approved by adviser	18

Subtotal: 64-67

Graduate programs

The Department of Biology offers graduate degrees leading to the Master of Arts or Master of Science, and the Master of Arts in Teaching or Master in Teaching Science/Biology. The department also offers an advanced Ph.D. degree in biology. The latter specialized degree is attained through the successful completion of requirements as stipulated by the department and the student's research committee (see below).

ADMISSION REQUIREMENTS

In addition to the instructions for admission to the graduate program (p. 41), the department requires the following information from each applicant to the M.A., M.S., M.S.T., or Ph.D. program in biology:

1. Satisfactory scores on the general Graduate Record Examination (GRE).
2. Two letters of evaluation from persons qualified to assess the applicant's promise as a graduate student.
3. The student should submit an application using the online form found on the PSU Office of Graduate Studies website.

The prospective student should realize that a high GPA and acceptable GRE scores do not guarantee admission to the graduate programs in biology because of variables including the availability of appropriate advisers, research space, and departmental resources.

BIOLOGY M.A./M.S.

See University master's degree requirements (p. 51). Specific departmental requirements are listed below.

Satisfactory completion of at least 45 credits of approved graduate-level courses required for a master's degree. Students must complete Bi 598 Graduate Research Prospectus, and Bi 599 Graduate Grant Writing in the fall and winter quarters following admission to the program. The student must complete at least 30 credits in the field of biology. No more than 9 credits may be in Bi 503 Thesis. No more than a total of 12 credits may be in Bi 501 and Bi 505 Reading and Conference. No more than a total of 9 credits may be in Bi 507 Seminar. A maximum of 12 credits may be programmed as electives in fields related to biology in consultation with the degree adviser. Successful completion of a final oral examination and a thesis is required. Full time students must complete their degree within 4 years of entry into the program.

BIOLOGY M.A.T./M.S.T.

The College of Liberal Arts and Sciences offers the M.A.T./M.S.T. degrees in Science/Biology. In consultation with the graduate adviser, the student should establish the degree program before the completion of 15 credits of coursework. The program must include a minimum of 45 credits in approved graduate courses, to include a minimum of 24 credits in the area of concentration. Students must complete Bi 598 Graduate Research Prospectus, and Bi 599 Graduate Grant Writing in the fall and winter quarters following admission to the program. At least 9 credits, but no more than 15 credits, must be in education courses and must include Ed 520 Introduction to Education and Society. The 45 credits required must include 6 credits in either Bi 501 Project Track: Research Project relating to biology teaching (i.e. curriculum module, grant proposal, community development project) as approved by student's committee; or Bi 504 Practicum Track: 6 credits in practicum/internship/community outreach experience as approved by student's committee. In order to fulfill

requirements for the degree, the student must satisfactorily complete the degree program and pass both a final written examination and a final oral examination.

BIOLOGY CONTINUING TEACHING LICENSE

The requirements for the continuing teaching license include satisfactory completion of 45 credits of upper-division and graduate work earned subsequent to receipt of a bachelor's degree. The 45 credits are in addition to those required for the initial teaching license. For the continuing endorsement in biology, the student must take at least 15 credits of adviser-approved graduate-level work distributed to strengthen the student's background in science.

Although no specific courses in science are required for the continuing endorsement, combined undergraduate and graduate preparation must include at least 36 credits in biology and must include specific courses. Each student's program is tailored to meet the needs of the individual and the requirements of the continuing endorsement and the continuing license. See Licensure (p. 138) for the required education courses.

BIOLOGY PH.D.

Prospective Ph.D. students are required to take Bi 698 Graduate Research Prospectus, Bi 699 Graduate Grant Writing, and Bi 520 Ethical Practice in the Life Sciences in the fall, winter, and spring quarters following admission to the program. Students must also complete 6 credits of Bi 607 Seminar, 27 credits of Bi 603 Dissertation, and 39 credits of coursework at the 500/600 level and above.

The student must also have taken a departmental comprehensive exam by the fifth quarter after entering the program, followed the next quarter by a formal defense of their Ph.D. prospectus. Successful completion of the degree is contingent on the completion of original research, and presentation of results in a public oral defense and production of a formal dissertation that is submitted to and approved by the student's research committee and the University's Office of Graduate Studies. Students must complete their degree within seven years of entry into the program.

Black Studies

150 Parkmill (PKM)
503-725-3472
www.pdx.edu/blackstudies

- B.A., B.S. in Black Studies
- Minor in Black Studies
- Postbaccalaureate Certificate in Black Studies

The Department of Black Studies is an academic interdisciplinary unit within the College of Liberal Arts and Sciences. It is one of four units in the School of Gender, Race, and Nations. The Department of Black Studies is devoted to the exploration and analysis of the history, politics, economics, literature, community, and culture of African people in the United States, the Caribbean/Latin America, and Africa. It seeks to research and teach about the black experience through the interdisciplinary contributions of its faculty by providing comprehensive learning programs aimed at greater understanding of by the historical and contemporary experiences of all African people in the U.S., Caribbean/Latin America, and Africa.

The Department of Black Studies provides students who opt for the Black Studies major, minor, certificate, or as an addition to majors such as anthropology, English, sociology, community studies, history, etc., a variety of course offerings. These courses serve to expand students' breadth of knowledge in related courses offered by the department or as a complement to those in other departments. Students gain an understanding of the complex relationship of race, gender, class, economics, and politics. The Department of Black Studies is inclusive in its attempt to incorporate varied cultural themes such as music, literature, and film and social institutions like the family, religion, economics, and politics into its curriculum into its courses.

The program provides students with a general historical background of the black experience in Africa and the Western hemisphere, as well as locally. Students also examine contemporary cross-cultural and multi-ethnic dynamics and are encouraged to engage in study and/or civic engagement courses to support their interests in global and community studies. The Department of Black Studies prepares students to work with diverse communities and to apply for graduate studies in a variety of disciplinary and professional programs. It will also give students a crucial competitive advantage in obtaining careers in those areas and within communities that interact with African, African American, and Caribbean/Latin American cultures.

Students interested in any of the degree programs offered in the Department of Black Studies are strongly encouraged to enroll in BST 202: Introduction to Black Studies or any other 200-level course. Students should meet with the undergraduate advisor for assistance with course selection based on their interests. For students who plan to apply to graduate school, it is important that they meet with one of their professors, the undergraduate advisor, or the department chair during their junior year, in order to discuss options for courses to enhance their research skills, such as the practicum, reading and conference, or other experiential learning courses.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for the Black Studies Department's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

BLACK STUDIES B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements for completing a B.A. or B.S., candidates enrolled in the Black Studies major must meet the 60-credit minimum. Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling the major requirements in the area of specialization. At least 30 of the total 60 credits required for the major or 45 of the total credits presented for graduation must be taken in residence at Portland State University. A minimum 2.50 GPA is required in courses taken for the major. Students interested in declaring a major in Black Studies should see the department undergraduate advisor or the department chair for assistance with Black Studies course selection.

Core courses

BSt 202	Introduction to Black Studies	4
BSt 396	Research Methodologies in Black Studies	4
BSt 407	Seminar And Either	4
BSt 411	African American History Seminar or	4
BSt 450	Topics in African/Caribbean History And Culture	4

Elective Courses

BSt	Two lower-division Black Studies courses	8
BSt	Six upper-division electives in Black Studies	24
	Three upper-division non-Black Studies courses or advisor-approved courses	12

Subtotal: 60

BLACK STUDIES MINOR

REQUIREMENTS

To earn a minor in Black Studies, a student must complete 28 credits (12 credits of which must be taken in residence at Portland State University). These courses must include eight credits in lower division, 12 credits in upper division, and eight upper-division advisor-approved credits chosen from departments in the College of Liberal Arts and Sciences. Students interested in declaring a minor in Black Studies should see the department undergraduate advisor or the department chair for assistance with Black Studies course selection.

Two courses chosen from: (8)

BSt 202	Introduction to Black Studies	4
BSt 203	African American History I - Slavery to the Harlem Renaissance	4
BSt 204	African American History II - From the Depression Era to Civil Rights	4
BSt 206	Caribbean Studies	4
BSt 211	Introduction to African Studies	4

Five upper-division courses in Black Studies or courses with Black Studies related content (20)

Subtotal: 28

BLACK STUDIES

POSTBACCALAUREATE CERTIFICATE

REQUIREMENTS

Conferral of a B.A. or B.S. degree is a prerequisite for a certificate in Black Studies. Candidates for the Black Studies certificate must complete 36 credits with 24 of these credits in courses in Black Studies. Twenty-four credits will be upper-division courses within an area of specialization constructed with the consent of the adviser. Students interested in declaring a postbaccalaureate certificate in Black Studies should see the department undergraduate advisor or the department chair for assistance with Black Studies course selection.

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling certificate requirements.

CENTER FOR BLACK STUDIES

150 Parkmill (PKM)
503-725-3472

Established in 1969, the Center for Black Studies at Portland State University facilitates the study of the past and present experiences of black America. Among the goals of the center is to act as a forum between faculty members and students of different disciplines who share an interest in Black Studies; to collect and disseminate

information which accurately reflects and helps improve the black experience; and to link the University and black communities by maintaining an active role in community service.

The center provides the University and the broader community with cultural activities and the stimulation of an exciting and enlightening intellectual atmosphere in the Portland community, contributing to greater understanding and cooperation between races. A lecture series brings to the campus and the Portland community black speakers of different disciplines and philosophies who have made notable contributions to society. The center promotes national and international activities in this area through the generation of grants, proposals, and programs that combine University staff, money, and expertise with resources from the government and the private sector.

Chemistry

262 Science Research & Teaching Center (SRTC)

503-725-8756

www.pdx.edu/chemistry/

chemistry@pdx.edu

- B.A., B.S.
- Minor
- Secondary Education Program
- M.A., M.S., M.A.T. and M.S.T. (Science/Chemistry)
- Ph.D.—Chemistry

Undergraduate programs

Chemistry is the study of the reactions of atoms and molecules, the stuff from which people and their physical environment are made. With a relatively small knowledge of atoms and molecules, it is possible to have a considerable understanding of many chemical phenomena we see and use. A comprehensive knowledge of chemistry is essential for the person who wishes to help solve the problems of today—problems of illness and disease, problems of wise use of our resources—and for the person who wants to do basic research in chemistry or who wants to work in the chemical industry.

The Department of Chemistry is committed to maintaining a teaching program of excellence at the undergraduate level as well as having a graduate program emphasizing cutting-edge research in the chemistry of the environment, novel materials and biological systems. Courses tailored for the student desiring only an introduction to the field are offered on a regular basis. A wide variety of other courses in the program are designed to offer fundamental training for students majoring in chemistry or for students in other science areas, such as biology or health-related occupations.

The curriculum, faculty, library, and facilities of the department are approved by the American Chemical Society. Graduating chemistry majors are eligible for certification to become members of the ACS after two years of professional experience.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Chemistry's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

CHEMISTRY B.A./B.S.

REQUIREMENTS

A student majoring in chemistry is required to take a minimum of 70 credits in the subject and will take courses in the core areas of general chemistry, analytical chemistry, organic chemistry, physical chemistry, inorganic chemistry, and biochemistry. For transfer students, a minimum of 20 credits in upper-division chemistry courses must be earned at PSU.

In addition to meeting the general University degree requirements, the major in chemistry must meet the following departmental requirements:

Option I: Chemistry

Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 223	General Chemistry III	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ch 229	General Chemistry Laboratory	1
Ch 320	Quantitative Analysis	4
Ch 321	Quantitative Analysis Laboratory	2
Ch 334	Organic Chemistry I	4
Ch 335	Organic Chemistry II	4
Ch 336	Organic Chemistry III	4
Ch 337	Organic Chemistry Laboratory I	2
Ch 339	Organic Chemistry Laboratory II (chem majors)	3
Ch 426	Instrumental Analysis	4
Ch 427	Instrumental Analysis Laboratory	4
Ch 436	Spectrometric Analysis And	3

Ch 437	Spectrometric Analysis Laboratory	1	Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4
Ch 411	Advanced Inorganic Chemistry I	4	Bi 214	Principles of Biology Lab I	1
Ch 440	Physical Chemistry I	4	Bi 215	Principles of Biology Lab II	1
Ch 441	Physical Chemistry II	4	Bi 216	Principles of Biology Lab III	1
Ch 442	Physical Chemistry III	4	Ch 490 requires the Ch 334, Ch 335, Ch 336 Organic Chemistry sequence as a prerequisite.		
Ch 443	Numerical Data Analysis and Modeling in Chemistry	2			
Ch 444	Physical Chemistry Laboratory	2			
Ch 4XX	Two approved 400-level chemistry courses	6-8			
	One year of physics with calculus with laboratory	15	All courses used to satisfy the departmental major requirements, whether taken in the department or elsewhere, including courses from supporting departments (e.g., mathematics, physics, and biology), must be graded C- or above, with a combined GPA of 2.25 or higher, except for those major course requirements offered only on a pass/no pass basis. If an unsatisfactory grade is received in an upper-division course offered in the Department of Chemistry, a student will be allowed to retake the course to improve their grade only once.		
	Calculus through Mth 253 or equivalent	12			
Option II: Biochemistry					
Ch 221	General Chemistry I	4			
Ch 222	General Chemistry II	4	A student will be certified by the American Chemical Society, and is eligible to become a member of the society after graduation, if the student is following Option I, and if the student also completes Ch 411, Ch 490 (or Ch 350), and a lab course that includes at least 30 clock hours (including Ch 401 and Ch 406). Note that CH 411 and CH 490 can also be used to satisfy the Approved 400-level Chemistry elective requirement.		
Ch 223	General Chemistry III	4			
Ch 227	General Chemistry Laboratory	1			
Ch 228	General Chemistry Laboratory	1			
Ch 229	General Chemistry Laboratory	1	The Department of Chemistry has an approved thesis-based Honors Degree program. Interested students should consult the Chemistry website and meet with the departmental Honors adviser for details.		
Ch 320	Quantitative Analysis	4			
Ch 321	Quantitative Analysis Laboratory	2			
Ch 334	Organic Chemistry I	4			
Ch 335	Organic Chemistry II	4	CHEMISTRY MINOR		
Ch 336	Organic Chemistry III	4			
Ch 337	Organic Chemistry Laboratory I	2			
Ch 339	Organic Chemistry Laboratory II (chem majors)	3			
Ch 440	Physical Chemistry I	4	REQUIREMENTS		
Ch 441	Physical Chemistry II	4			
Ch 426	Instrumental Analysis	4			
Ch 427	Instrumental Analysis Laboratory	4			
Ch 490	Biochemistry: Structure and Function	4	To earn a minor in chemistry a student must complete the courses outlined below; at least 10 credits of these must be taken in residence at PSU.		
Ch 491	Biochemistry: Enzymology and Metabolism	4			
Ch 492	Biochemistry: Nucleic Acids and Biological Information Flow	4			
Ch 493	Biochemistry Laboratory	3			
	Two approved 400-level science electives 6-8	6-8	Courses		
	Calculus through Mth 253 or equivalent	12			
	One year of physics with calculus with laboratory	15			
Bi 211	Principles of Biology: Molecular Cell Biology & Genetics	4			
Bi 212	Principles of Biology: Development, Evolution & Ecology	4	Ch 221	General Chemistry I	4
			Ch 222	General Chemistry II	4
			Ch 223	General Chemistry III	4
			Ch 227	General Chemistry Laboratory	1
			Ch 228	General Chemistry Laboratory	1
			Ch 229	General Chemistry Laboratory	1
			Ch 320	Quantitative Analysis	4
			Ch 321	Quantitative Analysis Laboratory	2
			One of the following groups:		
			Group 1:		
			Ch 334	Organic Chemistry I	4
			Ch 335	Organic Chemistry II	4
			Ch 336	Organic Chemistry III	4
			Ch 337	Organic Chemistry Laboratory I	2

Ch 338	Organic Chemistry Laboratory II (nonmajors)	2
Group 2:		
Ch 327	Elements of Organic Chemistry Laboratories I	2
Ch 328	Elements of Organic Chemistry Laboratories II	2
Ch 331	Elements of Organic Chemistry I	4
Ch 332	Elements of Organic Chemistry II	4
And one of the following:		
Ch 440	Physical Chemistry I	4
Ch 350	Biochemistry	4
Ch 490	Biochemistry: Structure and Function	4

Courses should be taken for differentiated grades, except those offered only on a pass/no pass basis.
Subtotal: 37-42

CHEMISTRY SECONDARY EDUCATION PROGRAM

Students who plan to obtain a teaching license with an endorsement to teach chemistry at the high school level should complete a baccalaureate degree with a major in chemistry (preferred) or in general studies/science. The degree program should include the following courses:

REQUIREMENTS

Courses

Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 223	General Chemistry III	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ch 229	General Chemistry Laboratory	1
Ch 320	Quantitative Analysis	4
Ch 321	Quantitative Analysis Laboratory	2
Ch 334	Organic Chemistry I	4
Ch 335	Organic Chemistry II	4
Ch 336	Organic Chemistry III	4
Ch 337	Organic Chemistry Laboratory I	2
Ch 338	Organic Chemistry Laboratory II (nonmajors)	2
or		
Ch 327	Elements of Organic Chemistry Laboratories I	2
Ch 328	Elements of Organic Chemistry Laboratories II	2
Ch 331	Elements of Organic Chemistry I	4
Ch 332	Elements of Organic Chemistry II	4

One of the following:

Ch 440	Physical Chemistry I	4
Ch 350	Biochemistry	4
Ch 490	Biochemistry: Structure and Function	4

Also required:

Ph 201	General Physics	4
Ph 202	General Physics	4
Ph 203	General Physics	4
or		
Ph 211	General Physics (with Calculus) I	4
Ph 212	General Physics (with Calculus) II	4
Ph 213	General Physics (with Calculus) III	4
And		
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
or		
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1

Subtotal: 52-60

Those majoring in general studies/science are advised to strengthen their preparation for teaching by taking additional chemistry and physics courses as their degree programs permit. Consult with the secondary education adviser for suitable courses. Chemistry teachers in many schools also teach physics, so it is recommended that additional physics courses be taken in preparation for eventually adding a physics endorsement to the license.

Courses should be taken for differentiated grades, except those offered only on a pass/no pass basis. A positive departmental recommendation for admission to the fifth-year teacher-education program will depend on at least a C- in all chemistry and physics courses, as well as a combined 2.25 GPA for these courses.

Graduate programs

The Department of Chemistry offers graduate work leading to the following degrees: Master of Arts or Master of Science; Master of Arts in Teaching or Master of Science in Teaching (Science); Ph.D. in Chemistry.

The M.S. program is designed for the student who wishes to pursue a career as a professional chemist or a scientist in

other allied disciplines. The program involves work in advanced courses with training in research techniques. An integral part of the program is the individual research project and thesis.

The M.A. program is designed for the student who wishes to obtain an advanced degree in chemistry, but for whom the time commitment of a traditional research degree (M.S.) is not feasible due to (typically) employment obligations. The M.A. program involves advanced coursework, a literature project, and a seminar presentation.

The M.A.T./M.S.T. is offered to provide scientific training for teachers in secondary schools. The program is composed of courses intended to increase the sophistication of the student in chemical principles and to acquaint the student with current techniques in teaching methods.

The program leading to the Ph.D. in Chemistry combines original research with advanced coursework in various disciplines of chemistry. Research foci in the department are biological chemistry, materials chemistry, and environmental chemistry. Students that complete the program are prepared to pursue careers in academic, industrial, or government research.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See the Graduate Programs page (<https://www.pdx.edu/chemistry/graduate-programs>) on the Department's website for admissions requirements, program information, and application instructions.

CHEMISTRY M.A./M.S.

See University master's degree requirements (p. 51). Specific departmental requirements are listed below and in the graduate handbook.

Prior to initial course registration in the M.A./M.S. program, the student must take entrance examinations in those areas of chemistry represented in the student's previous coursework. Any three of these examinations must be passed by the end of the first three academic terms of residence.

The candidate must complete a minimum of 45 credits in approved graduate courses. Of these, 6 credits of coursework must be outside of the major area of interest but within the Department of Chemistry. All students participate in a one-term course entitled Seminar Preparation as well as present to the department one seminar on an acceptable topic. For the M.A., if the student has not successfully completed two academic years of a foreign language at the undergraduate level, the student must show competence by examination.

Each candidate for the M.S. degree in chemistry must complete a thesis. The thesis, an experimental or theoretical research project resulting in an original contribution to chemical knowledge, must be defended in an oral examination. The examination is not restricted to the thesis material alone but may cover any aspect of chemistry or related fields.

CHEMISTRY M.A.T./M.S.T.

The College of Liberal Arts and Sciences offers the M.A.T./M.S.T. degrees in Science/Chemistry. In consultation with the graduate adviser, the student should establish the degree program before the completion of 15 credits of coursework. The program must include a minimum of 45 credits in approved graduate courses, to include a minimum of 24 credits in the area of concentration. At least 9 credits, but no more than 15 credits, must be in education courses. In order to fulfill requirements for the degree, the student must satisfactorily complete the degree program and pass both a final written examination and a final oral examination.

CHEMISTRY PH.D.

As with the M.S./M.A. programs, candidates must satisfy requirements related to entrance exams, coursework, seminar, and a thesis, as well as comprehensive examinations and a prospectus exam. The details of all requirements are outlined in the Department of Chemistry's Graduate Student Handbook.

Chicano/Latino Studies

150 Parkmill (PKM)
503-725-8499
www.pdx.edu/chla

- Minor in Chicano/Latino Studies
- Certificate in Chicano/Latino Studies

Chicano/Latino studies is the interdisciplinary study of social, cultural, political, economic, and historical forces that have shaped the development of the people of Mexico and other Latin American countries in the United States over the past 300 years. Emphasis is on the experience of the Chicano and other Latinos as residents and citizens in the United States and not in their countries of origin or descent.

The Chicano/Latino experience predates from the mid-19th century when territories belonging to Mexico were occupied by the United States. Latinos living in the United States have, over the years, developed a rich and extensive literature. They have been involved in all aspects of American life and have made major contributions in all areas of society.

Graduates with a minor or certificate in Chicano/Latino studies will have augmented their major field of study by broadening their scope of knowledge. They will have gained important insight into a very different culture within U.S. borders. This increased awareness and insight will lead to successful interaction on many levels of society. Graduates also will be better prepared to enter the workforce with its rapidly changing demographics.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Chicano/Latino Studies' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the program is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

CHICANO/LATINO STUDIES MINOR

REQUIREMENTS

In addition to meeting the general PSU requirements for a degree in any field, students pursuing a minor in Chicano/Latino studies must complete 28 credits to be distributed as follows:

Upper Division Electives (12 credits)

One 400-level course and two other from the following:

ChLa	Mexican American/Chicano	4
325/Hst 325	History I, 1492-1900	
ChLa	Mexican American/Chicano	4
326U/Hst	History II, 1900-Present	
326U		
ChLa 330U	Latino Popular Culture	4
ChLa 335	Chicano/Latin American Film	4
ChLa 375U	Southwestern Borderlands	4
ChLa 380U	Latinos in the Economy and Politics	4
ChLa 390U	Latinos in the Pacific Northwest	4
ChLa 399	Special Studies	1-8
ChLa 405	Reading and Conference	1-8
ChLa 407	Seminar	1-8
ChLa 408	Workshop	1-8
ChLa 410	Selected Topics	1-8
ChLa 411	Chicano/Latino History Seminar	4
ChLa 414	Chicano/Latino Literature	4
ChLa 450U	Latinos in Education	4

Core courses (16 credits)

ChLa 201	Introduction to Chicano/Latino Studies	4
ChLa 301U	Chicano/Latino Communities	4
ChLa 302U	Survey of Chicano/Latino Literature	4
ChLa 303U	Chicana/Latina Experience	4
Subtotal: 28		

CHICANO/LATINO STUDIES CERTIFICATE

REQUIREMENTS

A candidate for a certificate must satisfy all University requirements for a baccalaureate degree with an academic major in any field. A Chicano/Latino Studies Certificate may be pursued as a post-baccalaureate program. A student pursuing a certificate in Chicano/Latino Studies must complete 36 credits, distributed as follows:

Core courses: (16 credits)

ChLa 201	Introduction to Chicano/Latino Studies	4
ChLa 301U	Chicano/Latino Communities	4
ChLa 302U	Survey of Chicano/Latino Literature	4
ChLa 303U	Chicana/Latina Experience	4

Spanish Language Proficiency (8 credits)

Span 301	Third-year Spanish	4
Span 302	Third-year Spanish	4

Upper-division electives from the following: (12 credits)

One 400-level course and two other from the following:

ChLa	Mexican American/Chicano	4
325/Hst 325	History I, 1492-1900	
ChLa	Mexican American/Chicano	4
326U/Hst	History II, 1900-Present	
326U		
ChLa 330U	Latino Popular Culture	4
ChLa 335	Chicano/Latin American Film	4
ChLa 375U	Southwestern Borderlands	4
ChLa 380U	Latinos in the Economy and Politics	4
ChLa 390U	Latinos in the Pacific Northwest	4
ChLa 399	Special Studies	8
ChLa 405	Reading and Conference	4
ChLa 407	Seminar	4
ChLa 408	Workshop	4
ChLa 410	Selected Studies	8
ChLa 411	Chicano/Latino History Seminar	4
ChLa 414	Chicano/Latino Literature	4
ChLa 450U	Latinos in Education	4
Subtotal: 36		

Communication

University Center Building (UCB)
520 SW Harrison St., Suite 440
503-725-5384
www.pdx.edu/communication/

- B.A., B.S.
- Minor
- Honors
- M.S.

Undergraduate programs

The Department of Communication offers programs leading to degrees at both the undergraduate and graduate levels.

The courses offered in communication are based on the premise that an educated individual must be able to think critically and analytically, comprehend political, social, cultural, institutional, international, and mediated communication, listen effectively, and be sensitive and adaptive to communicative encounters with persons of diverse abilities, backgrounds, and situations. The effective communicator has an understanding of the complexity and dynamic nature of the communication process, as well as a sense of responsibility for the substance and consequences of communicative interaction.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Communication's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

COMMUNICATION B.A./B.S.

All classes in the major or minor must be taken for a letter grade and only classes graded C or better will be counted toward the major or minor.

REQUIREMENTS

In addition to meeting the general University requirements, the student must complete a minimum of 60 credits in communication courses plus Wr 222 or Wr 323 for a total of 64 credits.

Courses

Comm 300	Principles of Communication	4
Comm 311	Research Methods in Communication	4
Comm 316	Communication, Individuals, and Discourse	4
Comm 326	Communication, Society, and Culture	4
	Communication electives	44
Wr 222	Writing Research Papers or	4
Wr 323	Writing as Critical Inquiry	4

Of the 44 credits of communication electives,

- At least 32 must be in upper-division (numbered 300 and above) communication studies courses, of which
- At least 16 must be in course numbered 400 and above, of which
- At least 12 must be in courses numbered 410 and above.
- No more than 8 credits may be counted toward the major from courses numbered Comm 401 through Comm 409, including Communication Internship.

Total Credit Hours: 64

COMMUNICATION MINOR

To earn a minor in communication, a student must complete 28 credits with a minimum of 16 credits at the upper-division level. Total for Comm 401 through Comm 409 may not exceed 8 credits. A minimum of 12 credits must be taken in residence at PSU.

FILM STUDIES MINOR

Students may elect to pursue a minor in film studies, jointly offered by Communication, English, and Theater Arts and should consult the department for a complete list of courses that apply to the minor from offerings in Communication, English, and Theater Arts. A minimum of 20 advisor-approved credits in film studies is required. At least 16 of these credits must be taken at Portland State University from any of the three participating departments, and 16 credits must be upper-division.

Courses taken under the undifferentiated grading system (pass/no pass) will not be counted. A minimum grade of C is required for courses to be counted toward the minor. Advisor-approved film courses taken in communication will also be credited toward the major.

Graduate program

The Department of Communication offers graduate work leading to the Master of Science in Communication. We offer two tracks for master's students. The Research Track is designed for students who want to focus on communication research in their careers and for those interested in doctoral studies. The Professional Track is designed for students who prefer to focus on applying their studies to their careers in communication. We especially encourage mid-career professionals to apply for this track. Students decide at the time they apply which track is most suitable for them. Our faculty concentrate on research in the areas of media, politics, health, conversation, persuasion, propaganda, and language and social interaction.

ADMISSION REQUIREMENTS

Application reviews begin February 1 and end on March 1 each year. Early applications are strongly encouraged to secure placement and assistantships.

Applicants must also apply separately to Portland State University (see PSU Graduate Studies website (p. 41) for information and deadlines).

For admission to graduate study, the student's background and preparation should reflect an ability to pursue graduate work in communication. Students with undergraduate backgrounds in communication or a related discipline are encouraged to apply. Should the student's preparation be deemed inadequate in certain areas, the student will be required to overcome those deficiencies through formal coursework and/or directed readings. All such work is separate from work toward the master's degree.

Application process

Prospective students interested in graduate work should first check the Department website for current application and program information. Applicants should submit: Letter of application and statement of purpose (these may be combined into one document); Writing sample; Three letters of recommendation; Official transcripts; Official GRE scores (GREs are required for Research Track students and students who receive assistantships. Other students are encouraged—but not required—to provide GRE scores); Official TOEFL/IELTS scores (for international and English second-language students); and the PSU application and fee (send separately). Decisions about admission, fellowships and assistantships will be made on a first-come, first-serve basis. All applicants are notified in late April.

All students are admitted to the program conditionally. Faculty evaluate your progress after one-third of the coursework is completed. Students in good standing will have their conditional status removed.

Good standing is defined in graduate studies as a B (and higher) Grade Point Average (GPA). Students who stop taking courses need the approval of the Department Chair or Director of Graduate Studies to take a leave of absence, even for one quarter (except Summer). Students are required to be enrolled for at least 1 credit each term until they have completed all work, including thesis, project or exams.

Students who receive an incomplete grade in a course must finish outstanding coursework and earn a grade by the end of the following term/quarter. Students who have 2 outstanding incomplete grades are required to complete their coursework in good standing and earn grades before enrolling in additional courses. Note that students who receive a stipend, fellowship or assistantship must resolve incomplete grades immediately.

COMMUNICATION M.S.

All students must meet both University and Department requirements to successfully complete the graduate program in communication. Successful students earn a Master's of Science degree with a major in Communication.

All students must complete a total of 46 graduate credits, of which 40 are taken in coursework, plus an additional 6 credits toward the student's Thesis or Project (exam). Every student completes the three core courses (12 credits) in addition to elective courses (28 credits). All students complete 6 credits toward their culminating thesis or project. Research Track students complete a thesis. Professional Track students may complete either a thesis or the project (exam) with the approval of the graduate faculty.

Communication graduate students are expected to develop an understanding and appreciation of the theoretical, conceptual and methodological breadth of the discipline and to develop expertise in the pursuit of particular interests in the study of communication.

REQUIREMENTS

Each student's program must be based on the following:

Core theory courses:

Each student is required to take one core theory course:

Comm 511	Introduction to Communication Theory	4
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Core methods courses:

Each student is required to take two core methods courses as follows:

Comm 521	Quantitative Methods in Communication Research	4
Comm 531	Qualitative Methods in Communication Research	4

Total required core course credits:**Subtotal: 12****Minimum elective course credits:****Subtotal: 28****Minimum Thesis or Project credits:****Subtotal: 6**

Subtotal: 46

Students are encouraged to choose electives from within the Department, and courses taken outside the Department must be approved by the student's program advisor in order to count toward the requirements of the degree.

Every student is encouraged to take one credit of Comm 507 (Communication Research Apprenticeship) per quarter (a maximum of 6 credits may be counted toward the requirements of the degree). Comm 507 involves working closely with a faculty member in order to gain hands-on experience in how to conduct communication research.

All students need at least 40 credits in graduate coursework, including the core requirements, electives and apprenticeship courses. In addition, all students need at least 6 credits of Thesis or Project, bringing the total number of credits to 46.

PROGRAM OPTIONS

All students complete one of the following with close supervision of their advisor. We strongly encourage students to pursue the thesis option.

a. Thesis

The thesis entails a systematic study of a significant problem and contributes to the body of knowledge relevant to the study. A thesis is a research report completed in close consultation with the student's academic advisor and may be either quantitative or qualitative. Each student who elects the thesis option will complete a written thesis and pass a final oral examination. Prior to beginning work on the thesis, students must demonstrate proficiency in relevant theories and research methods. Students must complete at least 6 thesis credits (Comm 503).

b. Project

Students who choose the Project Option work closely with their faculty advisor on planning a course of study grounded in relevant theories, concepts and practices. All students who choose this option must demonstrate appropriate research and methodological competency by successfully completing 3 exams as the culminating project. Students must complete at least 6 project credits (Comm 506).

Conflict Resolution

131 Market Center Building (MCB)
503-725-9175

www.pdx.edu/conflict-resolution/

- B.A., B.S. Minor.
- M.A., M.S.

The Bachelors of Arts/Sciences, the Minor and Master of Arts/Sciences degree programs in conflict resolution are trans-disciplinary, encompassing the practical and theoretical bases of mediation and negotiation, involving research, theory, and competency-based education to help build conditions necessary for positive peace, conflict transformation (from destructive to constructive), and universal respect for context-sensitive human rights.

Students in the conflict resolution programs learn how to analyze conflict, uncover the underpinnings of conflicts in a wide variety of settings and scales. Students gain skills to defuse and deescalate destructive conflicts that arise among individuals, groups, and countries. Bachelor's degree holders are suited to entry-level careers in the field of conflict resolution, as well as being prepared to add value in any community setting, occupational field or workplace by bringing conflict transformation strategies to bear. Master's degree holders are prepared for leadership positions in conflict management and intervention via governmental, non-governmental, and corporate actors in local, regional, national and international settings. Minor degree holders add a conflict resolution component to their credentials while majoring in any field of study.

Both the graduate and undergraduate programs provides skill development through an integration of theory, method, and practice. Undergraduates acquire these skills commensurate with those required for working in peace and conflict settings, as well as those that add value to any community and occupational category. They go on to focus on transformation of conflict for the achievement of peace and social justice at the small group and community level. Graduate students emphasize implications of skill development for leadership in conflict and peace intervention, and go on to focus on perspectives, strategies and processes at the organizational level of peace building and conflict transformation.

Courses in conflict resolution are also offered in support of programs in other fields.

Undergraduate programs**DEGREE MAPS AND LEARNING OUTCOMES**

To view the degree maps and expected learning outcomes for Conflict Resolution's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements for more information.

CONFLICT RESOLUTION B.A./B.S.

The Conflict Resolution BA/BS major is a 56-credit combination of 28 credits of core classes and 28 credits of CR electives. The learning outcomes prepare the CR major degree holder equally for graduate school and employment in a CR-related field. The degree requirements of the major are below.

REQUIREMENTS

Core courses

CR 301U	Introduction to Conflict Resolution	4
CR 302U	Peace Studies	4
CR 307	Conflict Management Skills	4
CR 310	Fundamentals of Conflict Resolution	4
CR 311U	Introduction to Conflict Resolution Psychology	4
CR 312	Introduction to Intercultural Conflict Resolution	4
CR 411	Conflict Resolution Career Preparation	4

Subtotal: 28

Electives - Choose 28 credits from the following list

CR 303U	Consensus Building	4
CR 304U	Participating in Democracy	4
CR 305U	Ecology of War and Peace	4
CR 306U	Introduction to Nonviolence	4
CR 416	Evil and Hate	4
CR 419	Forgiveness and Atonement	4
CR 420	Individual and Group Reconciliation Processes	4
CR 423	Dialogue Across Differences	4
CR 445	Gender and Conflict Resolution	4

Subtotal: 28

Subtotal: 56

Total Credit Hours: 56

CONFLICT RESOLUTION MINOR

The Conflict Resolution minor is a 28-credit combination of competency and academic coursework, preparing the student for graduate work or employment in CR-related degree programs or careers. The degree requirements of the minor are below.

REQUIREMENTS

Core courses

CR 301U	Introduction to Conflict Resolution	4
CR 302U	Peace Studies	4
CR 303U	Consensus Building	4
CR 304U	Participating in Democracy	4
CR 305U	Ecology of War and Peace	4
CR 306U	Introduction to Nonviolence	4
CR 307	Conflict Management Skills	4

Subtotal: 28

The Minor is a degree program that offers students majoring in any field the opportunity to add a conflict resolution component to their studies.

Graduate program

ADMISSION REQUIREMENTS

For admission to graduate study, the student's background and preparation should reflect an ability to pursue graduate work in conflict resolution. It is not required that the applicant's undergraduate degree be in any specific academic discipline. Because the program is broadly interdisciplinary, students with any undergraduate degree are encouraged to apply for admission. Should the student's preparation be deemed inadequate in certain areas, the student will be required to overcome those deficiencies through formal coursework and/or directed readings. All such work is separate from work toward the master's degree.

Each applicant to the conflict resolution graduate program must submit a statement of purpose explaining his or her reasons for pursuing an advanced degree, along with an academic writing sample of at least ten pages in length. Additionally, each applicant must submit three letters of recommendation from individuals closely acquainted with the applicant's academic career and, where applicable, with the applicant's professional background and competencies.

All students are admitted to the program on conditional status. Regular status and retention in the graduate program requires the satisfactory completion of 12 graduate credits with a minimum grade of 3.00 in each course and evidence of satisfactory progress toward the degree.

CONFLICT RESOLUTION M.A./M.S.

Students entering this program are expected to develop an understanding and appreciation of the theoretical, conceptual, and methodological breadth of the field and to develop expertise in the pursuit of their own particular interests in the study of conflict resolution. In conjunction with the student's adviser, each student will design a

program based upon particular interests within the field of conflict resolution.

This program will provide the student with the appropriate research competencies—critical, qualitative, or quantitative—to pursue independent inquiry under faculty guidance. The master's degree program consists of a minimum of 63 credits of coursework, including 9 credits of thesis or project work and 9 credits of practicum work. Each student's program must be based upon the following courses or their transfer equivalencies.

REQUIREMENTS

Core Courses

CR 511	Research Methods in Conflict Resolution	2-4
CR 512	Perspectives in Conflict Resolution	4
CR 513	Philosophy of Conflict Resolution	4
CR 518	Psychology of Conflict Resolution	4
CR 515	Negotiation	4
CR 524	Advanced Mediation	4
CR 526	Intercultural Conflict Resolution	4
CR 522	Thesis and Project Preparation Seminar	1
Subtotal: 29		

COMPETENCIES

All graduate students are expected to develop theoretical and practical competencies by combining the 16 hours of required electives with the core coursework. These competencies will be developed in consultation with the graduate student's program advisor.

Subtotal: 16

ELECTIVES

In order to achieve program integration and focus in their studies, students are encouraged to select at least 12 credits of their electives from one of the following recommended areas of emphasis:

Track 1: Violence prevention and conflict transformation

Recommended Courses for Track 1

CR 523	Dialogue Across Differences	4
CR 545	Gender and Conflict Resolution	4
CR 539	Family Mediation	2
CR 540	Peer Mediation	2
CR 542	Peace Education	4
CR 517	Nonviolence	4
CR 510	NGOs and Civil Society	4

Track 2: Justice and Healing

Recommended Courses for Track 2

CR 516	Evil and Hate	4
CR 519	Forgiveness and Atonement	4
CR 510	Restorative Justice	4
CR 510	Transitional Justice and Peacebuilding	4
CR 541	Storytelling and Conflict Resolution	4
CR 510	Love and Conflict Resolution: What's Love Got to Do With It?	4

Track 3: Structural Peacebuilding and Development

Recommended Courses for Track 3

CR 527	Nationalism and Ethnic Conflict	4
CR 523	Dialogue Across Differences	4
CR 510	Human Rights and Conflict Resolution	4
CR 510	NGOs and Civil Society	4
CR 543	Nationalism and Democracy in a Post-9/11 World	4

PRACTICUM

Each student will complete a 9-credit, 300-hour practicum (CR 509) that covers at least one of the emphasis areas. The practicum will be set up in consultation with the student's program advisor. Optimally, the practicum will give the student professional experience in an emphasis area, as well as give the student ideas about research topics.

Subtotal: 9

CULMINATING EXPERIENCE

Students must complete one of the following culminating experiences. The decision to pursue one or the other of these options is to be made in conjunction with the student's faculty adviser.

Master's Professional Project

The student will complete a major project relating to his or her major area of study and present the results, with a written report and literature review, to faculty and students. The student will comply with current program guidelines for selection of project topic, project format, project committee, and presentation of the project outcomes. The student will complete the project under the direct supervision of the academic adviser. Students pursuing this option are required to sign up for at least 9 credits of CR 506 Special Project.

Master's Thesis

Each student will complete a thesis and pass a final oral examination on the thesis. Students must complete at least 9 credits of CR 503 Thesis; 9 credits maximum count toward the degree. The thesis chair and thesis committee will be selected in consultation with the program adviser. Prior to beginning work on the thesis, all students will be required to take the Thesis and Project Preparation Seminar where they demonstrate proficiency in relevant theories and research methodology.

Subtotal: 9

Total Credit Hours: 63

English

104 Stratford Hall (STFD)
503-725-3521
www.pdx.edu/english/

- B.A., B.S. English
- B.F.A. in Creative Writing
- Minor in English
- Minor in Film Studies
- Minor in Writing
- Postbaccalaureate Certificate in Comics Studies
- Secondary Education Endorsement (GTEP)
- M.A. in English
- M.F.A. in Creative Writing
- M.A., M.S. in Writing

Undergraduate programs

The study of English has long been considered one of the best ways to obtain a liberal education. Courses are designed to develop students' critical capabilities, to deepen their understanding of diverse cultural issues, and to improve their abilities to analyze and produce complex texts. The department prepares its majors for careers in writing and teaching, as well as for a variety of professions in which high levels of literacy and critical thought are required. Indeed, the breadth of knowledge and the communication skills that English majors typically acquire make them attractive to many potential employers and prepare them for graduate work leading to professions such as law. For those who wish to teach, the English Department prepares majors for graduate work leading to teaching certification or for entry into graduate master's or doctoral programs in English.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for English's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

ENGLISH B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, the English major must meet the following departmental requirements:

I. Critical Approaches and Methods: (8 credits)

These courses reinforce foundational training in close reading, formal and rhetorical analysis, evidence-based argument construction, and research methods that are indispensable for higher-level work in English.

Students must take both Eng 300 and Wr 301.

Eng 300 is a prerequisite for 400-level courses. Wr 301 may be taken concurrently with 400-level courses.

Eng 300	Literary Form and Analysis	4
Wr 301	Critical Writing in English	4

Subtotal: 8

II. Historical Literacy: (8 credits)

These courses provide students with the opportunity to explore different historical periods, regions, and genres, thus enabling them to find connections between multiple topics and cultural moments.

Take two courses from the following list.

Eng 301U	Topics in Shakespearean Genre	4
Eng 320U	The English Novel I	4
Eng 340U	Medieval Literature	4
Eng 341U	Renaissance Literature	4
Eng 342U	Eighteenth Century Literature	4
Eng 343U	Romanticism	4
Eng 351U/BSt	African American Literature	4
Eng 360U	American Literature and Culture I	4
Eng 411	English Drama	4
Eng 416	History of Rhetoric	4
Eng 426	Advanced Topics in Medieval Literature	4

Eng 441	Advanced Topics in Renaissance Literature	4
Eng 450	Advanced Topics in Eighteenth-Century Literature	4
Eng 458	Advanced Topics in Romanticism	4
Eng 460	Advanced Topics in American Literature to 1800	4
Eng 491	History of Literary Criticism and Theory I	4

Subtotal: 8**III. Culture, Difference, and Representation: (4 credits)**

These courses explore the politics of representation in the contexts of identity and subject formation, cultural encounter and domination, and canon formation and contestation.

Take one course from the following list.

Eng 326	Literature, Community, and Difference	4
Eng 327	Culture, Imperialism, and Globalization	4
Eng 428	Canons and Canonicity	4

Subtotal: 4**IV. Electives: (40 credits)**

These courses provide students with the opportunity to pursue their own interests and design a purposeful course of study.

Take ten Eng or Wr courses. At least seven courses (28 credits) must be at the 300 or 400 level. Three ENG courses (12 credits) may be at the 200-level; 200-level WR courses do not apply to the English major. Please read the “Notes and restrictions” section below for more information.

Subtotal: 40**Notes and restrictions**

- Eng 300 Literary Form and Analysis is a prerequisite for 400-level courses in the English major.
- Wr 301 is expected preparation for 400-level courses in the English major but may be taken at the same time as 400-level courses.
- Students must take at least 3 courses (12 credits) at the 400 level.
- Only courses taken under the differentiated grading option (i.e., a letter grade instead of pass/not pass) can be used to fulfilled the requirements of the English major and the minimum grade required is C.

- A minimum of 28 credits in English and/or Writing must be taken at PSU to graduate from PSU with a major in English.
- In the case of topics courses that may be taken more than once, no more than 8 credits of the same course number will count toward the English major.
- One upper-division literature course (4 credits) in the Department of World Languages and Literatures may be used as an elective in the English major with adviser approval.
- Ling 390 Introduction to Linguistics may be used as an elective in the English major.
- Wr 200, Wr 210, Wr 211, Wr 222, and Wr 323 will not count toward the English major.
- No more than 8 credits total from the following may be applied to the English major: Eng 401, Eng 402, Eng 404, Eng 405, Eng 408, Eng 409 and Wr 404, Wr 405.
- No more than 12 credits taken for the minor in Writing may be applied to the English major.
- No more than 8 credits taken for the minor in Film Studies may be applied to the English major.
- Chiron Studies courses will not count toward the English major or the minors in English, Writing, and Film Studies.

Total Credit Hours: 60**CREATIVE WRITING B.F.A.****ADMISSION REQUIREMENTS**

Admission to the degree program is based on (a) general admission to the university (see University Admissions (p. 8) for more information) and (b) admission to the Creative Writing program, which includes submission of a Statement of Purpose and a writing sample (10-15 pages of poetry, or 15-25 pages of prose).

REQUIREMENTS

In addition to meeting university B.A. degree requirements, the Creative Writing major must meet the following requirements for the B.F.A. degree: Literature Courses, Writing Courses, Fine Art Electives, English Electives, Writing Electives, and a Graduation Requirement (Senior Portfolio).

Literature Courses (16 credits)

Eng 204	Survey of British Literature I	4
Eng 205	Survey of British Literature II	4

Eng 253	Survey of American Literature I	4
Eng 254	Survey of American Literature II	4

Writing Courses (12 credits)

Wr 212	Introductory Fiction Writing	4
Wr 213	Introductory Poetry Writing	4
Wr 214	Introductory Nonfiction Writing	4

Fine Art Electives (8 credits)

Two courses in arts appreciation, theory, or performance (8 credits).

This requirement is fulfilled through courses in the College of the Arts prefixed Arch, ArH, Art, D, FILM, Mus, and TA.

English Electives (12 credits)

12 upper division Eng credits (With adviser approval, one upper-division WLL literature course may be applied to this requirement.)

Writing Electives (28 credits)

16 credits in the genre of portfolio (fiction, nonfiction, or poetry), at least 8 of which must be at the 400-level:

Wr 312	Intermediate Fiction Writing	4
Wr 313	Intermediate Poetry Writing	4
Wr 328	Media Editing	4
Wr 399	Special Studies	1-5
Wr 407	Writing Seminar	1-6
Wr 412	Advanced Fiction Writing	4
Wr 413	Advanced Poetry Writing	4
Wr 428	Advanced Media Writing	4
Wr 456	Forms of Nonfiction	4
Wr 457	Personal Essay Writing	4
Wr 458	Magazine Writing	4
Wr 459	Memoir Writing	4

12 credits of additional upper-division WR courses, 8 of which must be 400-level.

Note: Wr 312, Wr 313, Wr 412, Wr 413 may be repeated for credit.

Graduation Requirement

The Senior Portfolio is submitted for approval by the end of the third week of the quarter of graduation. This portfolio showcases the clean revised copy of the student's creative writing in a chosen genre (i.e., fiction, nonfiction, or poetry), and should contain: (a) An introductory statement of artistic intent, which is a formal statement of the student's goals and craft and a critical assessment of the work (6-10 pages); and (b) Writing within a genre: 30-50 pages of fiction or nonfiction, or 20-30 pages of poetry.

Additional Information on Requirements

- Creative Writing majors in upper-division English courses are expected to be able to write a library research paper when required. The department

recommends that majors without prior training in research paper writing enroll in Wr 222.

- Only courses in which a student receives a C or above can count for the Creative Writing major.
- Only courses taken for a letter grade can count toward the Creative Writing major.
- No more than 12 credits taken for the Minor in English may be applied to the Creative Writing major.
- A minimum of 24 credits in English and/or Writing at PSU is required to graduate from PSU with a major in Creative Writing.

Total Credit Hours: 76

ENGLISH MINOR**REQUIREMENTS**

To earn a minor in English a student must complete 28 adviser-approved credits (12 credits of which must be taken in residence at PSU).

- Twelve credits must be literature courses.
- Sixteen credits must be at the upper-division level.
- No more than 8 credits total and no more than 4 credits in each of the following may be applied to the English minor: Eng 199, Eng 399, Eng 401, Eng 405, Eng 408, Eng 409, Wr 199, Wr 399, and/or Wr 405.
- With the exception of upper-division creative writing courses, any course used to satisfy departmental minor requirements must be taken under the differentiated grading option and must have been assigned a grade of C or above. Upper-division creative writing courses assigned a grade of pass may apply to the minor.

Note: The following courses will not count as part of the English minor: Wr 115 Introduction to College Writing, Wr 121 College Writing, Wr 211 Writing Practice, Wr 222 Writing Research Papers.

WRITING MINOR**REQUIREMENTS**

To earn a minor in writing, a student must complete 28 WR credits (12 credits of which must be taken in residence at PSU).

- Sixteen credits must be taken at the upper-division level.
- One WIC course may be applied to the minor requirements.
- No more than 8 credits total from the following may be applied to the Writing minor: Wr 399, Wr 404, Wr 405.

- No more than 8 credits total of courses taken with undifferentiated grading (i.e. Pass/No Pass) may be applied to the Writing minor.
- Any course used to satisfy the minor requirement must have been assigned a grade of Pass (undifferentiated grading) or a grade of C or higher (differentiated grading).

Note: The following courses will not count as part of the Writing minor: Wr 115 Introduction to College Writing, Wr 121 College Writing, Wr 199 Special Studies, Wr 210 Grammar Refresher, Wr 211 Writing Practice, Wr 222 Writing Research Papers, Wr 323 Writing as Critical Inquiry.

FILM STUDIES MINOR

REQUIREMENTS

The film studies minor is offered through the Departments of English, Communication, and Theater and Film. The minor requires 28 credit hours in appropriate coursework, including internships and adviser-approved courses at the Northwest Film Center (Note: NWFC operates on semester system). Students may select from a number of courses listed in various departments throughout PSU. These include courses offered by the Departments of World Languages and Literatures, Art, History, Black Studies, Women, Gender, and Sexuality Studies, Sociology, and others.

28 adviser-approved credits must include:

FILM 131	Film Analysis	4
Eng 304	Critical Theory of Cinema	4
	20 elective credits with at least	20
	12 carrying numbers 300 or above	

Note: Electives may include additional theory or history classes, as well as classes in film production at the Northwest Film Center. All courses in the minor must be taken for a letter grade. Courses taken for fulfillment of the Minor in Film Studies may also be applied to University Studies requirements.

Certificates

COMICS STUDIES UNDERGRADUATE CERTIFICATE WITH BACCALAUREATE

Application Requirements for Comics Studies Certificate

In order to receive the certificate, students must:

1. be admitted as a PSU student.
2. meet academic standards--Students must have a cumulative GPA of 3.0 in the following categories:
 - a. all undergraduate course work outside PSU (if applicable)
 - b. all PSU graded credits.
 - i. Students who do not meet these standards may apply with a statement explaining their background and academic plans and may be accepted on a probationary status.
3. complete the online application.

To continue in the program, students are required to be in good academic standing, requiring a cumulative 3.00 GPA for all coursework taken at PSU and a term GPA of at least 2.67 each term.

Application Process

Deadlines: Applications will be accepted on a rolling basis.

University Application: Complete the University application.

Departmental Application: Complete the application at www.pdx.edu/comics-studies/apply

The Comic Studies application requires:

A statement of intent: A personal introduction that describes your interest in comics and comic art, your reasons for pursuing the Certificate in Comics Studies, and what most interests you about comics (creation, writing, editing, drawing, history, theory, critical scholarship, etc.).

Copies of transcripts from previously-attended universities and/or colleges.

REQUIREMENTS

Core Requirement

Eng 496	Comics Theory	4
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Elective Options (Choose 5):

All courses counted towards the Comics Studies Certificate must be completed at Portland State; no transfer credits will be accepted.

Other courses (e.g., internships) may be substituted for electives at the direction of the Program Director.

Other courses in additional departments TBA.

Art 297	Book Arts	4
Art 2/399	Creating Short Comics: Practical Comic Creation	4
Art 356	Visual Storytelling	4
Art 370	Topics in Printmaking Techniques	4
Art 455	Time-Based Art Studio	4
Eng 410	Special Topics in Comics Studies	4
Jpn 343	Topics in Japanese Literature (In Translation)	4
Phl 317U	Philosophy of Art	4
WLL 448U	Major Figures in World Literature	4
Wr 300	Topics in Composition	4
Wr 398	Writing Comics	4
Wr 400	Special Topics: Advanced Writing for Comics	4
Wr 460	Introduction to Book Publishing	4
Wr 462	Book Design Software	4

Subtotal: 20

Eng 410: Special Topics in Comics Studies, listed above as an elective option, may include courses such as:

- Editing Comics
- Focus on Frank Miller/Will Eisner
- European Comics
- Autobiographical Comics
- Superheroes and Society
- Censorship and the Comics Code

Completion Requirements

To be awarded the certificate, students must complete the core requirement and 5 elective courses (for 24 total credits) with a grade of C or higher (or Pass) for each course.

SECONDARY EDUCATION ENDORSEMENT (GTEP)

For students who complete a major in English and wish to teach Language Arts in middle or high schools, PSU's Graduate School of Education offers a M.Ed. with certification in Language Arts through their Graduate Teacher Education Program (GTEP). Applicants to the GTEP program in Language Arts must complete specific prerequisites in the content area with grades of B- or better. PSU English majors may do this as part of their major requirements: early consultation with the department's Language Arts content area advisor can streamline this process and is strongly recommended for students interested in careers in secondary education.

Graduate Programs in English

The Department of English offers graduate work leading to the Master of Arts degree, which is designed for students who are prepared to undertake advanced work in the field. The program provides a range of courses in literatures in English, including British, American, and Anglophone literature; composition and rhetorical theory; cultural studies; and literary history, theory, and critical methods. Students in the program go on to work in humanities-related fields from higher education and K-12 teaching to arts education and public relations; still others others pursue the degree solely for their own interest and enrichment.

ENGLISH M.A.

Admission Requirements

Application deadline January 15th.

- Applications received after this date may not be reviewed.
- Applicants will be asked to submit the following through the online application found at <http://www.pdx.edu/english/graduate-admissions>:
 - A minimum of two letters of academic recommendation
 - Statement of purpose of study
 - Two recent samples of written work to include an analytical essay
 - A complete set of transcripts
 - GRE (Graduate Record Exam) scores. Verbal and quantitative scores are required; the subject area exam is optional.

Applicants are expected to have extensive experience in literary studies, especially English language and literature. Applicants who do not already have a bachelor's degree in English are expected to have taken 20-30 credit hours in literatures in English and writing, so that they come into the program with a knowledge of literary history, excellent writing skills, and experience doing advanced critical analysis in upper-division coursework. Applicants are also expected to have a minimum GPA of 3.25 in all English courses.

Those who do not meet these requirements may be considered for conditional admission. They will need to provide satisfactory evidence of preparedness to undertake advanced work. Their application will need to include:

- 3.25 GPA in four or five graduate English courses
- Explanation of undergraduate record and purpose of study

- Two samples of written work from recent English courses

Students whose native language is not English must score at least 600 on the TOEFL paper examination, at least 100 total on the internet-based exam, and at least 250 on the computer-based exam.

REQUIREMENTS

See University master's degree requirements (p. 51). Department requirements are described in detail in the Department of English brochure, M.A. in English, and the *English MA Handbook*, which are available upon request.

For the M.A., the department requires a minimum of 32 graduate credits in English (courses prefixed with "Eng"), including Eng 500 Problems and Methods of Literary Study, Eng 507 Seminar, 4 credits of pre-1800 British or American literature, 4 credits in literature or rhetoric, whether Anglophone or in translation, before 1900, and 4 credits of critical theory. The remainder of the student's program may, with the approval of the adviser, include coursework in fields related to English. A minimum of 45 graduate credits is required for the M.A. in English.

In every case, the student's program must be approved by the student's adviser and the Director of the English M.A. Program. The student will have a choice of two tracks:

- I. The focus area, non-thesis option, emphasizing general coverage of literary material.
- II. The Qualifying Essay option, permitting more specialized research.

An exam, which all students must take, will test their general knowledge of the field of English. Students pursuing option I must choose one specialized area of study that will constitute a portion of the rest of their written exam.

Graduate Programs in Writing

The Department of English offers graduate work leading to the M.F.A. in Creative Writing (Fiction, Nonfiction, and Poetry), the M.A. or M.S. in Publishing, and the M.A. or M.S. in Professional and Technical Writing.

CREATIVE WRITING M.F.A.

The M.F.A. degree offers an intensive program of writing in small, core workshops and seminars taught by established writers. In workshop, students engage in close readings and critiques of their peer's work, while recent seminars have included Forms, Defamiliarization, Constraint-based Writing, Fragments, and Aspects of Translation.

Prospective students must apply to the strand in which they want to focus: fiction, nonfiction, or poetry. Seminars and Core workshops and eight credits of seminar are taken in

the student's primary strand, while electives allow students to explore other strands, as well as classes in the larger English Dept and outside of the department. The M.F.A. emphasizes faculty mentorship throughout each student's coursework and thesis completion. Engagement in Portland's vibrant community of writers is also central to the development of our students' work.

Many students come to the M.F.A. with a background in English literature, writing or journalism, but others have backgrounds in the social sciences, sciences, and fine arts. Our program is further distinguished for the diversity of its student body, including a range of ages and life experience, as well as for its flexibility. The program can be completed in two years of full-time coursework, but students have up to four years to complete the degree in order to accommodate those who choose to attend part-time or want to take additional courses.

Admission Requirements

Applicants to the M.F.A. program must provide satisfactory evidence of preparedness to undertake advanced work, which would include a B.A., B.F.A., or B.S. degree from a regionally accredited college or university and a 3.25 GPA in undergraduate work. The application deadline is January 15. Applicants must submit the following:

Applicants must submit the following, using the online application process:

- A Departmental application form indicating the strand they will focus on: fiction, nonfiction, or poetry.
- Three letters of recommendation from individuals who can speak to your creative and intellectual work, and your ability to successfully undertake graduate work.
- A 500-700 word statement describing the applicant's background as a writer, goals, and interest in this particular program.
- A transcript from every post-secondary institution you have attended. Unofficial transcripts or photocopies are acceptable for the Department application.
- A manuscript in the applicant's primary strand. Manuscript form is defined as having one inch margins, double-spaced text, a single, clear, 12-point typeface, no extra space between paragraphs, indented first line for each paragraph, information identifying the author and title of the manuscript on every page, and page numbers. Poetry manuscripts may be single-spaced; each poem should begin on a new page. Only single-authored work will be accepted. Manuscripts should demonstrate mastery of basic craft and literary promise, and should represent your best work regardless of whether or not it has been published. Writing samples can be comprised of one or multiple bodies of work equal the page requirements listed below.

-In poetry: 12- 15 pages

-In fiction: 20- 30 pages

-In nonfiction: 20- 30 pages of magazine articles or creative nonfiction

Writing Samples and optional additional material in the form of a CV or resumé may be uploaded in one of the following supported file types: PDF, DOC, DOCX, RTF, or TXT.

Note: Graduate Record Examination (GRE) scores are not required for admission to the M.F.A. in Creative Writing program.

REQUIREMENTS

Courses

	MFA Core Workshops	16
	Wr seminars in Strand	8
	Electives	16
Wr 503	Thesis	8
Subtotal: 48		

Core Workshops (4 classes): WR 521, WR 522, and WR 523 are restricted to students admitted to the M.F.A. in the strand. Students will take the Workshop in their strand no fewer than four times and no more than six times, to earn a minimum of 16 credits. First-year students are required to take core workshops in their first two terms.

WR Seminars in Strand (2 classes): Seminars must focus on the student's strand (i.e. fiction, nonfiction, or poetry) or be a cross-genre course which includes the student's strand. Fiction seminars are all listed as WR 507: Fiction; poetry seminars are all listed as WR 507: Poetry, and nonfiction seminars include WR 507: Nonfiction. Other MFA seminars may be included by advisor approval.

Electives (4 classes): Graduate ENG and/or WR courses chosen from within the department. Of these, students are encouraged to take at least one WR 507 seminar outside of their genre. Up to 8 credits may be taken in LING 590, TA 574, or TA 575 or, with advisor approval, in graduate courses outside the department in an area related to the student's thesis.

Wr 503 Thesis: (8 credit hours to be arranged)

M.F.A. students also complete a creative thesis of high literary merit, pass a written examination based on the thesis, and pass an oral examination based on the written examination and creative thesis.

WRITING M.A./M.S.

The Department of English offers graduate work leading to the Master of Arts in Writing and the Master of Science in Writing degrees with specializations in Book Publishing and Technical/Professional Writing. The 48-credit M.A./M.S. in Writing is designed for students who are

prepared to undertake advanced work in the field. The program provides a range of courses in technical and professional writing and in book publishing. The motives and destinations of the students in the program vary, but the focus on writing to earn a living will attract those who wish to make writing a career.

The M.A./M.S. in Book Publishing and Technical/Professional Writing programs have rolling admissions which follow the University's admission deadlines as follows: April 1st for Fall admission; Sept. 1st for Winter; and Nov. 1st for Spring.

Please note that Graduate Assistantship applications for Book Publishing and Technical/Professional Writing can only be accepted from fall term applicants, who must meet the January 3 deadline. Book Publishing also awards Graduate Assistantships in the second year of the program for one year only; the deadlines for application will be announced within the program annually, and receiving such an appointment is conditional on the appointee remaining for the entire coming school year.

Admission Requirements

Admission to graduate study is granted on the basis of evidence of suitable preparation and the probability of success in the intended field of study. In both Book Publishing and Technical/Professional Writing, strong writing skills are considered central. Applicants do not need to have a previous degree in English or Writing, but must hold a B.A. or B.S. degree from a regionally accredited college or university. Applicants must also submit the following:

- A letter of introduction.
- A complete set of transcripts. A transcript from each post- secondary institution you have attended is required. Unofficial transcripts or photocopies are acceptable. You will be asked to upload a transcript for each institution in one of the following supported file types: PDF, JPG, PNG, GIF, or TIF.
- A minimum of three letters of recommendation.
- For Technical Writing, a writing sample of fifteen to thirty pages from customary genres, including (but not limited to) descriptions, specifications, computer documentation, proposals, memoranda, formal reports, newsletters, on- line documentation, or web pages. Writing samples should represent your best work and demonstrate mastery of basic craft and promise of success in technical/professional writing. Your writing sample can be comprised of one or multiple bodies of work equal to the page requirements listed above.
- For Book Publishing, a writing sample of fifteen to thirty pages of writing that demonstrates your potential as a publishing professional. Previously published work is welcome, and your sample can consist of multiple pieces, so long as they do not exceed the page limit.

Your sample can be of a professional, academic, or artistic nature (or a mixture of the three). Indeed, a diversity of materials is often most effective at demonstrating your strengths as a prospective student for the graduate program in Book Publishing. If you have editing or design experience, samples of this work are welcome, but in these instances, please be sure to include a brief cover letter that details your role in these projects. With editing samples, it's particularly important that we can actually see the editing you've done; one way to achieve this is to submit both pre- and post-editing versions, another is to submit a document with your copyediting marks handwritten on it, and yet another is to submit a document with track changes.

You will be asked to upload your writing samples and optional material such as a C.V. or resume in one of the following supported file types: PDF, DOC, DOCX, RTF, or TXT.

Note: Graduate Record Examination (GRE) scores are not required for admission to the M.A. in Writing or the M.S. in Writing program.

DEGREE REQUIREMENTS

For technical/professional writing and book publishing, the department requires a minimum of 28 graduate credits in writing. The remainder of the student's program may, with the approval of the adviser, include coursework in fields related to writing.

In every case, the student's program must be approved by the adviser. The student will choose between two tracks: Technical/Professional Writing and Book Publishing.

TECHNICAL AND PROFESSIONAL WRITING SPECIALIZATION

Students typically will complete 16 core credits (4 courses), 16 elective credits (4 courses), and 16 credits (4 courses) in a specialization that may involve coursework in another discipline (e.g. Management, Marketing).

Students will be required to submit a final project in addition to completing their course work. This project typically will be a portfolio of their work demonstrating competence at a professional level but, with adviser approval, may be a single, substantive work.

Note: core courses include Mgmt 512, Organizational Management, or an alternate adviser-approved business course, which are offered through the School of Business Administration. Students may substitute Wr 560 Introduction to Book Publishing for Mgmt 512.

Electives include seminars and workshops on a variety of topics. Writers are encouraged to supplement their core courses in technical/professional writing with electives from creative writing, nonfiction writing, or literature. Adviser-approved courses from outside the department may also count as electives.

Note: the M.S. option does not require students to demonstrate proficiency in a language other than English. In cases where a student does opt to demonstrate proficiency in a language other than English, the M.A. in Writing: Technical and Professional Writing will be awarded.

Core Courses (16 Credits)

Wr 525	Advanced Technical Writing	4
Wr 526	Document Design	4
Wr 527	Technical Editing	4

Mgmt 512	Organizational Management or	4
Wr 560	Introduction to Book Publishing	4

Wr 560: (may also be replaced with an alternate graduate business course with adviser approval).

Electives (16 Credits)

Wr 504	Cooperative Education/Internship	1-9
Wr 505	Writing and Conference	1-6
Wr 510	Selected Topics in Writing	0-6
Wr 529	Writing Computer Documentation	4
Wr 530	Desktop Publishing II	4

Wr 510: Selected Topics in Writing (4) (Topics vary; consult the Bulletin for each quarter's offerings.)

Note: Students needing training in relevant software are encouraged to look for the Wr 510 Trends series offered in Framemaker, RoboHelp, Adobe Creative Suite, and others.

Specialization Tracks (16 Credits)

Students will select a specialization track in consultation with the program adviser. Possible specializations include publications management (e.g., Introduction to Book Publishing, Book Editing, Book Design Software, Book Marketing, Book Selling, Business of Book Publishing, Selected Topics, Internship), technical communication (e.g., Writing Computer Documentation, PT Editing, Writing Seminars, Selected Topics, Internship).

Additional specializations outside of technical/professional writing include nonfiction (i.e., four courses from the nonfiction strand chosen in consultation with the adviser) and creative writing (i.e., four courses from the creative writing strand chosen in consultation with the adviser).

Possible specializations outside the field of writing include business administration (management, marketing/public relations), and communication (speech). Students are encouraged to enhance their professional development by specializing in a series of courses that will create advantages in employment opportunities. Students will identify possible specializations in consultation with the program adviser and with an appropriate faculty adviser from the related discipline.

Subtotal: 48

BOOK PUBLISHING SPECIALIZATION

Students typically will complete 20 core credits (5 courses), 16 elective credits (4 courses) in writing, and 12 elective credits (3 courses) that may involve coursework in another discipline with Adviser's approval. Of the 28 elective credits, candidates are expected to take a total of eight (8) credits working at Ooligan Press in either or both Wr 574 Publishing Studio or Wr 575 Publishing Lab.

The final project, in addition to completing the coursework, will be a portfolio of work demonstrating competence at a professional level, but with adviser approval, may be a single, substantive work. Upon completion and delivery of the final project or portfolio to the student's orals committee, a topic will be assigned by the student's adviser for a final paper of approximately 15 pages to be delivered within 15 business days to each member of the committee.

The student will take an oral exam in defense of the final project and final paper. Work included in a portfolio will be representative of that done in each course, and appropriate to it, but may otherwise focus in greater detail on one or more areas of study. For instance, the portfolio may include samples of editorial work, query letters for fiction and nonfiction books, book marketing plans, book design proposals and finished designs, research and writing on issues in contemporary publishing. Other possibilities are negotiable with the assigned graduate adviser in Book Publishing.

Core Courses (20 credits)

Wr 560	Introduction to Book Publishing	4
Wr 561	Book Editing	4
Wr 562	Book Design Software	4
Wr 563	Book Marketing	4
Wr 564	Business of Book Publishing	4
Wr 566	Digital Skills	4

Electives (28 credits)

28 credits from other writing courses, from literature courses, or from another discipline.

Students earn eight (8) of their elective credits by participating in the work of Ooligan Press, a small trade publishing house. Students work in groups to review, accept, and edit manuscripts; design the interior and the exterior of books; send books to press; and market the books to booksellers, libraries, and other outlets.

Note: the M.S. option does not require students to demonstrate proficiency in a language other than English. In cases where a student does opt to demonstrate proficiency in a language other than English, the M.A. in Writing: Book Publishing will be awarded.
Subtotal: 48

Environmental Science and Management

218 Science Research and Teaching Center (SRTC)
503-725-4982
www.pdx.edu/esm/

- B.A., B.S. in Environmental Science
- B.A., B.S. in Environmental Studies
- Minor in Environmental Science
- Minor in Sustainability
- Certificate in Lake and Reservoir Management
- M.S., M.E.M., P.S.M.
- Ph.D. via Earth, Environment and Society Doctoral Program
- Graduate Certificate in Hydrology

Environmental science and management is the study of the interactions among society and the physical, chemical, ecological, and biological processes that structure and maintain ecosystems. Our work is critical to understanding and developing sustainable ecosystems, human societies, and economies. Environmental Science and Management at PSU focuses on processes that link terrestrial, urban and aquatic ecosystems, consequences of human alteration of those linkages, and development of policies to manage human interaction with the environment. We conduct our research by studying organisms and specific linkages and processes across systems and by studying interactions between organisms, processes, and linkages in a specific ecosystem or watershed, such as the Columbia River Basin. The Department of Environmental Science and Management prepares students to develop the skills and interdisciplinary understanding to be scholars and managers of human interaction with, and impact on, environmental systems.

The Department of Environmental Science and Management cooperates with several departments and centers, including the departments of Anthropology, Biology, Chemistry, Civil Engineering, Economics, Geography, Geology, History, Mathematics, Physics, Political Science, Sociology; and the School of Business Administration and the College of Urban and Public Affairs.

Undergraduate programs

The Department of Environmental Science and Management offers two undergraduate degrees. The Environmental Science degree is focused on natural science, whereas the Environmental Studies degree is focused more on policy and management. The B.A./B.S. degrees in both Environmental Science and Environmental Studies rest on an interdisciplinary curriculum that develops understanding and expertise in environmental science by building on a foundation in mathematics,

natural sciences, and economics complemented by related courses in environmental policy and management. Students should consult with a department adviser to assure proper course planning. Students can complete field experiences by working on projects in the University, metropolitan community, and region.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Environmental Science and Management's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See page Admissions Requirements (p. 8) for more information.

ENVIRONMENTAL SCIENCE B.A./B.S.

REQUIREMENTS

In addition to satisfying general University requirements (45 credits), a student majoring in environmental science must complete at least 51 credits of environmental science core courses and must meet department requirements for foundation courses (49-50 credits), and environmental science topical area elective courses (16 credits).

All courses used to satisfy the Environmental Science major requirements, whether taken in the department or in other departments, must be graded C- or above.

Department requirements are listed below. Students must complete the foundation courses listed below. All foundation courses should be completed before a student enrolls in the upper-division sequence (ESM 320, ESM 321, ESM 322). Of the 16 credits of 400-level courses required in the core, a maximum of 4 credits may be taken as ESM 404 Internship.

Departmental Orientation

ESM 150	Orientation to Environmental Sciences and Management	1
		Subtotal: 1

Foundation Courses

Bi 211	Principles of Biology: Molecular Cell Biology & Genetics	4
Bi 212	Principles of Biology: Development, Evolution & Ecology	4
Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4
Bi 214	Principles of Biology Lab I	1

Bi 215	Principles of Biology Lab II	1
Bi 216	Principles of Biology Lab III	1
Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ec 201	Principles of Microeconomics or	4
Ec 332U	Economics of Environmental Issues	4
G 201	Dynamic Earth: Interior	3
G 204	Geology Laboratory	1
	or	
G 202	Dynamic Earth: Surface	3
G 205	Geology Laboratory	1
	or	
Ph 201	General Physics	4
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
	or	
Ph 211	General Physics (with Calculus) I	4
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
	or	
Geog 210	Physical Geography	4
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Stat 243	Introduction to Probability and Statistics I	4
	And	
Stat 244	Introduction to Probability and Statistics II	4
	or	
Stat 243	Introduction to Probability and Statistics I	4
	And	
ESM 340	Research Methods in Environmental Science	4

Subtotal: 49-50

Core Courses

ESM 220	Introduction to Environmental Systems	4
ESM 221	Applied Environmental Studies: Problem Solving	4
ESM 222	Applied Environmental Studies: Policy Consideration	4
ESM 320	Environmental Systems I	4
ESM 321	Environmental Systems II	4
ESM 322	Environmental Risk Assessment	4
ESM 323	Environmental Systems Laboratory I	2

ESM 324	Environmental Systems Laboratory II	2
ESM 325	Environmental Risk Assessment Lab	2
ESM 335	Introduction to Environmental Management	4
ESM 407	Environmental Seminar	1
ESM 410-499	Advanced Environmental Topics	16
Subtotal: 51		

ESM 404 can be substituted for 4 credits of the ESM 410-499 requirement.

Environmental Science Topical Area Requirement

Students must complete 16 credits of supporting courses selected from an approved list of courses available on the department Web site www.pdx.edu/esm/. These courses are intended to provide specialization and skills in particular areas of study that are represented in the research and scholarly foci of our faculty.

Subtotal: 16

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling major requirements. Additional courses may be required as prerequisites. All courses used to satisfy the Environmental Science major requirements, whether taken in the department or in other departments, must be graded C- or above.

Total Credit Hours: 116-117

ENVIRONMENTAL STUDIES B.A./B.S.

REQUIREMENTS

Department of Environmental Science and Management and the Department of Geography are collaborating to offer a degree in Environmental Studies. The degree prepares the students for more sophisticated upper division courses at the interface between science and policy by requiring them to take some foundational courses in natural sciences, geography, and environmental policy.

A summary of the requirements are listed below:

- 28 credits in the Environmental Studies Core
- 24-26 credits in Foundation courses including the subjects of biology, chemistry, and geography
- 22 credits from a list of "Skills" that includes quantitative analysis, visualization of spatial data, field methods, and communication
- 20 credits in Environmental Systems (12 credits) and Geography & Human Systems (8 credits)

There is a minimum of 94 credits required for this major.

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling major requirements except for ESM 150 and ESM 407, which are only available as pass/no pass courses. Additional courses may be required as prerequisites. All courses used to satisfy the Environmental Studies major requirements, whether taken in the department or in other departments, must be graded C- or above.

Environmental Studies Core Courses

ESM 150	Orientation to Environmental Sciences and Management	1
ESM 220	Introduction to Environmental Systems	4
ESM 221	Applied Environmental Studies: Problem Solving	4
ESM 222	Applied Environmental Studies: Policy Consideration	4
ESM 330	Environmental and Ecological Literacy	4
ESM 333	Methods of Data Collection, Analysis, Representation, and Modeling for Environmental Managers	4
ESM 334	Methods of Data Collection, Analysis, Representation, and Modeling for Environmental Managers Lab	2
ESM 335	Introduction to Environmental Management	4
ESM 407	Environmental Seminar	1

Subtotal: 28

Environmental Studies Foundation Courses

Biology (8-10)

Take one of the following sequences:

Bi 212	Principles of Biology: Development, Evolution & Ecology	4
Bi 215	Principles of Biology Lab II And	1
Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4
Bi 216	Principles of Biology Lab III or	1
Sci 341U	Biology Concepts and Applications I	4
Sci 342U	Biology Concepts and Applications II	4

Take all of the following

ESM 230	Fundamentals of Environmental Chemistry I	4
ESM 231	Fundamentals of Environmental Chemistry II	4

Geog 210	Physical Geography	4
Geog 230	Environment and Society: Global Perspectives	4

Subtotal: 24-26**Skills**

Students must take a total of 22 credits of skill courses, across four areas, including the following:

Quantitative Analysis (4)

Stat 243	Introduction to Probability and Statistics I	4
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GIS and Mapping (8)

Geog 380U	Maps and Geographic Information	4
Geog 488/USP 591	Geographic Information Systems I: Introduction	4

Field Methods (2)

ESM 342	Field Methods	2
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Communications (8)

Wr 327	Technical Report Writing	4
Comm 410	Environmental Communication	4

Subtotal: 22**Environmental and Human Systems (20)**

Students must take at least 3 400-level courses in Environmental Systems and 2 400-level courses in Geography/Human Systems from an approved list of focus areas (<http://www.pdx.edu/esm/environmental-studies>).

Subtotal: 20**Total Credit Hours: 94-96**

ENVIRONMENTAL SCIENCE/ENVIRONMENTAL STUDIES HONORS TRACK

The Honors Track in Environmental Science or Environmental Studies will allow outstanding undergraduate students to obtain recognition for exceptional performance in coursework and research. Students will gain real life experience that will assist them when applying to graduate school and/or for a professional career position. Acceptance into the ESM Honors Track gives students an opportunity to work closely with a faculty mentor and the graduate students in his/her lab. In addition, participation in the Honor's Track strengthens the student's resume and provides them access to professional networking contacts.

This program is designed for upper division ESM majors who wish to deepen their knowledge base in a particular area of interest. Under the guidance of an assigned faculty adviser, participants will identify a research project that will include readings, field or lab work, and a thesis. For

additional information about the ESM Honors Track, please visit the department website.

CLIMATE ADAPTATION AND MANAGEMENT CERTIFICATE

The department is currently not accepting applications to this certificate.

Over the coming decades, governments and the private sector around the world will spend billions of dollars to support adaptation measures that seek to reduce climate-related vulnerabilities for people and the ecosystems on which they depend. To contribute to climate risk management and adaptation at local to global levels students will need to understand the fundamentals of adaptation planning, assessing climate impacts, evaluating risk and vulnerability, identifying adaptation strategies, as well as monitoring climate impacts. Students who complete the certificate will be prepared to take active roles in and contribute to climate adaptation.

This is a rigorous certificate that will require a total of 21 credits in 300- and 400-level courses. The courses are split between science and management/policy courses. Although the certificate could be earned by any student, they will have to have had many pre-requisites (or equivalent preparation) in ESM or Geography.

CERTIFICATE REQUIREMENTS

The certificate requires 21 credits of which 13 required credits are offered in ESM.

Electives (choose 2)

G 459	Quaternary Climate	4
ESM 428	Urban Ecology	4
ESM 483	Marine Conservation and Management	4
ESM 418/Geog 418	Landscape Ecology	4
ESM 427	Watershed Biogeochemistry	4
ESM 480	Coastal Marine Ecology	4
PS 435	Disasters and Public Policy	4
Geog 310U/Sci 333U	Climate and Water Resources	4
Geog 311U	Climatology	4
Geog 312U	Climate Variability	4

Subtotal: 8**Required courses**

ESM 335	Introduction to Environmental Management	4
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ESM 462	Climate Change Impacts, Adaptations and Responses: Geosphere and Anthroposphere	4
ESM 464	Climate Adaptation: Managing Environmental Risks and Vulnerabilities	4
ESM 407	Climate Change Adaptation SOE Seminar	1
Subtotal: 13		

Students must take required courses for a differentiated grade and earn a C-or better for it to count toward the certificate (except that a P is acceptable for the ESM 407 only).

Subtotal: 21

Total Credit Hours: 21

FOREST ECOLOGY AND MANAGEMENT CERTIFICATE*

The department is currently not accepting applications to this certificate.

Forest management requires a consideration of the ecological, social, and policy context of Oregon's forests, including urban forests. This certificate is designed to provide the academic background required for understanding and managing forests beyond traditional industrial forestry needs. Students who complete the certificate will be prepared to take active roles in and contribute to management of Oregon's forests.

This is a rigorous certificate that will require eight 400-level courses. The courses are split between forest ecology, watershed functioning, management, and policy areas. Although any student could earn the certificate, they will have to have had many pre-requisites (or equivalent preparation) in ESM or Geography.

CERTIFICATE REQUIREMENTS

Electives

Bi 471	Plant Ecology	4
Bi 476	Population Ecology	5
ESM 427	Watershed Biogeochemistry	4
ESM 435	Natural Resource Policy and Management	4
ESM 445	Old-growth Forest Ecology	4
ESM 465	Investigating Ecological and Social Issues in Urban Parks and Natural Areas	4
Geog 413	Biogeography of Pacific Northwest	4
Geog 415	Soils and Land Use	4
Geog 448	The Urban Forest	4

Subtotal: 16		
Core courses		
ESM 407	Forest Ecology and Management Seminar	1
ESM 418/Geog 418	Landscape Ecology	4
ESM 425	Watershed Hydrology	4
ESM 444	Forest Ecology	4
Subtotal: 13		

Students must take required courses for a differentiated grade and earn a C-or better for it to count toward the certificate (except that a P is acceptable for the ESM 407 only).

Total Credit Hours: 29

LAKE AND RESERVOIR MANAGEMENT CERTIFICATE

PSU has a range of expertise in managing watersheds, lakes and reservoirs for ecological and water resources. PSU also has the Center for Lakes and Reservoirs that was established by the Oregon State legislature to address lake management and invasive species issues. Many of our faculty are active in the North American Lakes Management Society (NALMS) and the local chapters of the Oregon Lakes Association Washington State Lake Protection Association.

This is a rigorous certificate that will require eight 400-level courses. The courses are split between aquatic ecology, watershed processes, management, and policy areas. Although the certificate could be earned by any student, they will have to have had many pre-requisites (or equivalent preparation) in ESM or Geography. Students who complete the certificate will be prepared to take active roles in and contribute to management of lakes and reservoirs. In addition, this certificate is designed to provide the academic background required by the NALMS Professional Lake Manager certification program.

CERTIFICATE REQUIREMENTS

The certificate requires 33 to 34 credits total and 22 of these credits must be in ESM. The student must complete courses in each of the following five areas.

Aquatic Ecology (10 credits)

Required

ESM 475	Limnology and Aquatic Ecology	4
ESM 477	Limnology Laboratory	2

Choose one from the following:

ESM 424	Wetland Ecology	4
ESM 426	Ecology of Streams and Rivers	4
ESM 474	Fish Ecology and Conservation	4

Watershed Science (8 credits)**Required**

ESM 425	Watershed Hydrology	4
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Choose one from the following:

ESM 427	Watershed Biogeochemistry	4
ESM 479/CE 479	Fate and Transport of Toxics in the Environment	4
Geog 414	Hydrology	4

Business and Management (8 credits)**Choose two from the following**

ESM 483	Marine Conservation and Management	4
ESM 485	Ecology and Management of Bio-Invasions	4
Geog 446	Water Resource Management	4
Geog 494	GIS for Water Resources	4

Policy Legal and Governmental Aspects (7-8 credits)**Required**

ESM 429	Environmental Impact Assessment	4
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Choose one from the following:

ESM 435	Natural Resource Policy and Management	4
USP 571	Environmental Policy	3

Subtotal: 33-34

Students must take required courses for a differentiated grade and earn a C- or better for it to count toward the certificate.

Total Credit Hours: 33-34**ENVIRONMENTAL SCIENCE MINOR****REQUIREMENTS**

To obtain a minor in environmental science, a student must complete at least 34 credits as listed below (at least 12 of which must be taken in residence at PSU). At least 4 credits each in biological sciences, physical sciences (physics, chemistry, geology), economics, and Mth 241 or Mth 251 are expected before admission to the minor.

Courses

ESM 222	Applied Environmental Studies: Policy Consideration	4
ESM 320	Environmental Systems I	4
ESM 321	Environmental Systems II	4
ESM 322	Environmental Risk Assessment	4
ESM 323	Environmental Systems Laboratory I	2
ESM 324	Environmental Systems Laboratory II	2
ESM 325	Environmental Risk Assessment Lab	2

Upper-division environmental policy management courses	4
Upper-division environmental sciences courses	8

Subtotal: 34

Environmental policy/management courses (minimum 4 credits) include selected upper-division courses in environmental science and management, economics, and geography. Environmental science courses (minimum 8 credits) include selected upper-division courses in environmental science. A list of approved courses is available from the Environmental Science and Management office and the department website.

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling minor requirements. Courses with omnibus numbers 401, 404, 405, 406, and 407 are not allowed for the minor. Additional courses may be required as prerequisites. Only grades of C- or above count toward satisfying the minor requirements.

SUSTAINABILITY MINOR

This minor requires a multidisciplinary study of the environmental, social, and economic dimensions of sustainability

REQUIREMENTS

To obtain a minor in sustainability a student must complete at least 30 credits (at least 15 of which must be taken in residence at PSU), to include the following:

Courses

ESM 150	Orientation to Environmental Sciences and Management	1
UnSt 224	Environmental Sustainability	4
ESM 222	Applied Environmental Studies: Policy Consideration	4
	Upper-division credits to include at least a total of four courses from the following three categories	15-16

Students must choose at least one course from each category.

Economics and Business Issues

Ec 332U	Economics of Environmental Issues	4
Ec 444	Economics of Green Power	4
Ec 433/ESM 433	Advanced Natural Resource Economics	4
Ec 434/ESM 434	Business Environmental Management Economics	4
Ec 443/ESM 443	Global Environmental Economics	4

USP 490	Green Economics and Sustainable Development	3
Ec 430	Resource and Environmental Economics	4
ESM 357U	Business Solutions for Environmental Problems	4

Social and Management Issues

Arch 367U	Fundamentals of Environmental Design	4
Geog 340U	Global Water Issues and Sustainability	4
Geog 345U	Resource Management	4
Geog 346U	World Population and Food Supply	4
Geog 347U	Environmental Issues and Action	4
Geog 442	Sustainable Cities	4
Geog 465	Tuscany: Sustainability in City and Country	4
Hst 339U	The Environment and History	4
Phl 310U	Environmental Ethics	4
PS 319	Politics of the Environment	4
Sci 321U	Energy and Society I	4
Sci 322U	Energy and Society II	4
Soc 341U	Population Trends and Policy	4
Soc 465	Environmental Sociology	4
SySc 334U	Modeling Social-Ecological Systems	4
USP 313U	Urban Environmental Issues	4
USP 325U	Community and the Built Environment	4
USP 419/Soc 441	Population and Society	4

Environmental and Ecological Issues

ESM 355U	Understanding Environmental Sustainability I	4
ESM 356U	Understanding Environmental Sustainability II	4
ESM 420	Ecological Toxicology	4
ESM 424	Wetland Ecology	4
ESM 426	Ecology of Streams and Rivers	4
ESM 428	Urban Ecology	4
ESM 445	Old-growth Forest Ecology	4
ESM 460/CE 488	Air Quality	4
Sci 335U	Water in the Environment I	4
Sci 336U	Water in the Environment II	4
Sci 352U	Science and Policy of Climate Change	4

In addition, students must choose an appropriate capstone or internship:

UnSt 421	Capstone	6
ESM 450	Case Studies in Environmental Problem Solving	4-6

ESM 404	Cooperative Ed/Internship Sustainability Minor	6
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(A list of acceptable capstone and internship courses will be prepared for each year).

Subtotal: 30-31

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling minor requirements. Courses with omnibus numbers 401, 404, 405, 406, and 407 are not allowed for the minor. Additional courses may be required as prerequisites. Only grades of C- or above count toward satisfying the minor requirement.

NOTE: Students earning the minor in sustainability may not also earn the sustainable urban development minor offered by the Toulan School of Urban Studies and Planning unless the courses presented for the minors differ by at least 12 credits. Only grades of C- or above count toward satisfying the minor requirements.

Graduate Programs

The Environmental Science and Management (ESM) graduate program provides a curriculum that will develop scientists and managers able to analyze and understand environmental systems, predict environmental change and participate in the management of the environment. Each student conducts research and completes a thesis or project; each student develops depth in a specific academic area; and each student develops breadth through a set of core courses that include concepts in physical systems, ecological systems and management. Areas of primary specialization are terrestrial, urban and aquatic ecology as they relate to human impacts and management. ESM offers the Masters of Science (MS), the Masters of Environmental Management (MEM), and the Professional Science Masters (PSM) degrees. The Department also participates in the Earth, Environment, & Society Ph.D. degree (p. 185).

The following procedures are designed to assure that the student is qualified to pursue both the program itself and a successful career in environmental science and management.

ADMISSION REQUIREMENTS**Master of Science, Master of Environmental Management, and Professional Science Masters**

In addition to the instructions for admission to the university graduate program, ESM master's programs require the following information from each applicant.

1. Satisfactory scores on the Graduate Record Examination (GRE) aptitude test. A satisfactory score

on the Test of English as a Foreign Language (TOEFL) is required for international students.

2. Three letters of evaluation from persons qualified to assess the applicant's promise as a graduate student.
3. Evidence of undergraduate or graduate coursework in biology, chemistry, statistics, physics, and mathematics (including differential and integral calculus) approximately equivalent to the foundation course requirements for undergraduate students in environmental science or environmental studies.
4. One official transcript from every college or university attended, including junior colleges and community colleges.
5. Statement of Interest.
6. Current resume or CV.
7. Identification of advisers.

Prospective students should contact the program for a statement of current admission policy. A high GPA and acceptable GRE scores do not guarantee admission to master's programs in Environmental Science and Management; admission is contingent on the availability of department resources and the identification of an appropriate adviser for each student.

ENVIRONMENTAL SCIENCE AND MANAGEMENT M.S./M.E.M./P.S.M.

University master's degree requirements must be met. In addition, specific degree program requirements are listed in each program.

The graduate study program is developed through discussions involving the graduate student, the student's adviser, and the student's graduate committee. The M.S., M.E.M. or P.S.M. graduate committee consists of at least three members including the major adviser. The major adviser and one other committee member must be a member of the graduate faculty. The graduate committee must be approved by the ESM Chair.

To encourage the development of interdisciplinary graduate study programs, guidelines for course selection are flexible. M.S. and M.E.M. students must complete at least 45 graduate credits. P.S.M. students must complete at least 57 graduate credits.

M.S. REQUIREMENTS

The M.S. program of study consists of the following minimum credit requirements:

Courses

Core courses (one from each core area and selected from program list)	16
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ESM 507	Speakers Series Seminar repeated 3 times, 1 credit per term	3
	Quantitative analysis (selected from program list)	4
	Area of concentration	12
	Elective and supporting courses	4
ESM 503	Thesis	6-12
Subtotal: 45		

M.E.M. REQUIREMENTS

The M.E.M. program of study consists of the following minimum credit requirements:

Courses

	Core courses (one from each core area and selected from program list and ESM 551)	16
ESM 507	Speakers Series Seminar repeated 3 times, 1 credit per term	3
	Quantitative analysis (selected from program list)	4
	Area of concentration	12
	Elective and supporting courses	4
ESM 509	Practicum	1
ESM 506	Project	5
Subtotal: 45		

P.S.M. REQUIREMENTS

The P.S.M. program of study consists of the following minimum credit requirements.

Courses

	Core courses (one from each core area and selected from program list and ESM 551)	16
ESM 507	Speakers Series Seminar repeated 3 times, 1 credit per term	3
	Quantitative analysis (selected from program list)	4
	Area of concentration	12
	Elective and supporting courses	4
ESM 509	Practicum	1
ESM 506	Project	5
	PSM "Plus" Courses	12
Subtotal: 57		

CORE COURSES

Core courses are required in physical environmental processes, ecological processes and environmental management for all master's students. M.E.M. and P.S.M. students must also complete a core course in project management (ESM 551). Lists of approved core courses

are available from the ESM office or online at <http://www.pdx.edu/esm>.

QUANTITATIVE ANALYSIS

A course in research methods, experimental design, or statistical analysis, is required to ensure students have sufficient skills for environmental research.

ELECTIVE COURSES

Elective courses are to be defined in the student's program of study, and agreed upon by the student's adviser and graduate committee. Courses may be selected to provide additional background, to explore new areas, and to add depth to a scholastic program.

THESIS OR PROJECT

A central purpose of the M.S. and M.E.M. degree is to teach students the process of problem solving and research. A minimum of 6 credits is required. Students working toward the M.S. degree will be required to complete original research leading to a thesis, which complies with standards established by the Office of Graduate Studies and Research. Students working toward the M.E.M. degree will be required to complete a project in lieu of a thesis. M.E.M. students will take: 1 unit of ESM 509 Practicum at the beginning of their program, and 5 units of ESM 506. This project is expected to be the product of original work in cooperation with an agency, organization, or firm involved in environmental management activities. The project plan, approach, and project report must be approved by the advisory committee in a manner parallel to that for thesis research. The project report must be presented at a public seminar to be followed by an oral defense of the work conducted by the student's graduate committee.

The culminating experience of the students seeking a P.S.M. degree is the completion of a project. This element of the curriculum serves to integrate coursework, further develop skills required to function effectively in a professional setting (e.g., communication, presentation, and project management) and provide an opportunity to participate in the solution of a real environmental problem. Working with local agencies or/and organizations, an ESM faculty member and possibly in a group of other students, the P.S.M. student identifies a problem, formulates a project with the community partner, formally proposes a project, completes the scope of work detailed in the proposal, and documents and presents the results of the project to an appropriate audience. This project is ESM 506 - Project, 5 credits.

P.S.M. PLUS COURSES

In addition to the above courses, the P.S.M. degree also requires at least four courses (12 credits) focused on business and professional management and practices. These "Plus Courses" are what distinguish the P.S.M.

degree from the M.E.M. degree. The student is required to complete at least two credits in each of the four areas of "Plus Courses" (project management, communication, law/policy, and ethics). Lists of approved "Plus Courses" are available from the ESM office or online at <http://www.pdx.edu/esm>.

HYDROLOGY GRADUATE CERTIFICATE

The Graduate Certificate of Hydrology is designed to give students advanced training in hydrology, and leads to professional certification with the American Institute of Hydrology (AIH). More information about the certificate can be found at www.pdx.edu/esm/hydrology-certificate.

Geography

424 Cramer Hall
503-725-3916
www.pdx.edu/geography

- B.A., B.S.
- Minor
- Minor in GIS
- Minor in Water Resources
- Secondary Education Program-Social Science
- M.A., M.S.
- M.A.T. and M.S.T. (General Social Science)
- Graduate Certificate in GIS
- Ph.D. in Earth, Environment, & Society

Undergraduate programs

The Geography Department at Portland State University links environmental studies and cultural studies in a program centered on environmental issues, social and cultural landscapes, sustainability in urban and natural areas, and Geographic Information Science. Coursework emphasizes systematic and regional approaches to understanding the physical environment and human-environment interactions. Techniques classes (in GIS, remote sensing, cartography, and spatial analysis) provide the tools to analyze complex local, regional, and global phenomena. Access to the Pacific Coast and the Cascade Mountains provides ample opportunity for fieldwork-based classes and opportunities for research. The PSU Department of Geography is an excellent choice for undergraduate and graduate students with interests in the linkages between human and natural systems.

Faculty engage in local, regional, and international research projects in hydrology, water resources, biogeography, sustainable development, land use analysis, climate change, cultural ecology and cultural landscapes,

the urban environment, geographic education, and geographic information science. Ongoing faculty research sites in international areas include East Asia, high Asia, Latin America, and Mediterranean Europe.

Geography participates in the Earth, Environment and Society (EES) Ph.D. Program. Over 120 undergraduate majors and 30 graduate students participate in two departmental groups, the Friends of Geography and the Student Chapter of the American Society for Photogrammetry and Remote Sensing/Columbia River Region. Several research groups and outreach programs in the department provide additional job and internship opportunities for interested students in public agencies and businesses in such fields as planning, environmental management, GIS, and cartography.

The geography program gives students an appreciation and understanding of the human environment on global, regional, and local scales. It provides background and requisite training for careers in resource, planning, environmental, or education fields. Geography majors find work in urban and natural resource management, spatial/GIS analysis, urban planning, map design and production, and statistical analysis. Geography is the lead department on campus for training in GIS, remote sensing, cartography, and spatial analysis.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Geography's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

GEOGRAPHY B.A./B.S.

In addition to meeting the general University degree requirements, the major in geography must complete at least 60 credits in geography courses, including 12 credits in each of the following areas: geographic techniques, physical geography, regional geography, and human geography—as detailed below. Of the courses presented for the major, 12 credits are in required courses (Geog 210, Geog 230, and Geog 380), and at least 36 Geography credit hours must be at the upper division, to include 16 hours at the 400-level. Geog 230 may be counted for human or regional geography, but not for both. Geog 496, or Stat 243 and Stat 244, or equivalent is required for the B.S. degree.

REQUIREMENTS

Physical Geography: (12 credits)

Geog 210	Physical Geography	4
Geog 310U/Sci 333U	Climate and Water Resources	4
Geog 311U	Climatology	4
Geog 312U	Climate Variability	4
Geog 313U	Biogeography	4
Geog 314U	Severe Weather	4
Geog 320/G 374	Geomorphic Processes	4
Geog 322U	Alpine Environments	4
Geog 333U/Ph 333U	Weather	4
Geog 340U	Global Water Issues and Sustainability	4
Geog 407	Seminar in Physical Geography	4
Geog 412	Global Climate Change Science and Socio-environmental Impact Assessment	4
Geog 413	Biogeography of Pacific Northwest	4
Geog 414	Hydrology	4
Geog 415	Soils and Land Use	4
Geog 418/ESM 418	Landscape Ecology	4

Geog 210: required

Human Geography: (12 credits)

Geog 230	Environment and Society: Global Perspectives	4
Geog 240	Geography of Wine	4
Geog 331U	Geography of Globalization	4
Geog 332U	Urban Geography	4
Geog 345U	Resource Management	4
Geog 346U	World Population and Food Supply	4
Geog 347U	Environmental Issues and Action	4
Geog 348U	Cultural and Political Ecology	4
Geog 349U	Mountain Geography	4
Geog 407	Seminar in Human Geography	4
Geog 430	Cultural Geography	4
Geog 432	Urban Landscapes	4
Geog 442	Sustainable Cities	4
Geog 445	Resource Management Topics	4
Geog 446	Water Resource Management	4
Geog 447	Urban Streams	4
Geog 448	The Urban Forest	4
Geog 462	Sense of Place	4

Geog 230: required

Regional Geography: (12 credits)

Geog 230	Environment and Society: Global Perspectives	4
Geog 321	Mt. Hood	4
Geog 350U	Geography of World Affairs	4
Geog 351U	Pacific Northwest	4
Geog 352U	The Himalaya and Tibet	4
Geog 353U	Pacific Rim	4
Geog 354U	Europe	4
Geog 355U	Landscapes of Spain	4
Geog 356U	Russia and Its Neighbors	4
Geog 360U	Latin America	4
Geog 363U	Africa	4
Geog 364U	The Middle East	4
Geog 366U	Historical Geography of North America	4
Geog 368U	United States and Canada	4
Geog 407	Seminar in Regional Geography	4
Geog 450	Geography of Portland	4
Geog 453	Japan	4
Geog 465	Tuscany: Sustainability in City and Country	4

Geog 230: required

Geographic Techniques: (12 credits)

Geog 380U	Maps and Geographic Information	4
Geog 407	Seminar in Research Skills	4
Geog 420	Field Methods in Physical Geography	4
Geog 425	Field Methods in Human Geography	4
Geog 475	Digital Compilation and Database Design	4
Geog 480	Remote Sensing and Image Analysis	4
Geog 481	Digital Image Analysis I: Introduction	4
Geog 482	Digital Image Analysis II: Advanced Remote Sensing	4
Geog 484	Cartographic Applications of GIS	4
Geog 485	Map Design and Production	4
Geog 488/USP 591	Geographic Information Systems I: Introduction	4
Geog 489	Building a GIS Database with GPS	4
Geog 490	GIS Programming	4
Geog 492/USP 592	Geographic Information Systems II: Advanced GIS	4
Geog 493	Digital Terrain Analysis	4
Geog 494	GIS for Water Resources	4
Geog 495	Maps, Models, and GIS	4

Geog 496	Introduction to Spatial Quantitative Analysis	4
Geog 497	Advanced Spatial Quantitative Analysis	4

Geog 380U: required

Geography Electives (12)

Subtotal: 60

Course taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department major requirements.

All courses used to satisfy the departmental major requirements must be graded C- or above.

GEOGRAPHY MINOR

To earn a minor in geography a student must complete a minimum of 28 credits in geography (at least 12 credits of which must be taken in residence at Portland State University, and 16 credits of which must be upper-division), to include the following:

REQUIREMENTS**Courses**

Geog 210	Physical Geography	4
Geog 230	Environment and Society: Global Perspectives	4
Geog 380U	Maps and Geographic Information	4
	Geography electives (upper-division)	16

Subtotal: 28

All courses used to satisfy the departmental minor requirements must be graded C- or above.

WATER RESOURCES MINOR

The minor may be earned simultaneously with a B.A. or B.S. degree, or post baccalaureate in any major.

REQUIREMENTS**Adviser-approved courses (16 credits)**

Students must take at least one 300-level course and two 400-level courses from these current offerings.

Geog 310U/Sci 333U	Climate and Water Resources	4
Geog 320/G 374	Geomorphic Processes	4
Sci 335U	Water in the Environment I	4
ESM 424	Wetland Ecology	4
ESM 425	Watershed Hydrology	4
ESM 426	Ecology of Streams and Rivers	4
ESM 475	Limnology and Aquatic Ecology	4

G 443	Ground Water Geology	4
G 448	Chemical Hydrogeology	4
Geog 414	Hydrology	4
Geog 446	Water Resource Management	4
Geog 447	Urban Streams	4
Geog 494	GIS for Water Resources	4

Students may use up to four credits of other coursework toward minor requirements.

For students pursuing both the Geography major and the Water Resources Minor OR both the Environmental Science major and the Water Resources minor OR both the Environmental Studies major and the Water Resources minor, courses presented for the minor must differ from the major by at least 12 credits.

Foundational Courses (12 credits)

Students must choose three of the foundational courses from the following Geography and Environmental Sciences and Management courses.

Geog 210	Physical Geography	4
Geog 230	Environment and Society: Global Perspectives	4
Geog 340U	Global Water Issues and Sustainability	4
ESM 220	Introduction to Environmental Systems	4

GEOGRAPHIC INFORMATION SYSTEMS MINOR

REQUIREMENTS

To earn a minor in GIS (Geographic Information Systems) a student must complete a minimum of 28 credits in geography (at least 16 credits must be taken in residence at Portland State University), to include the following:

Core courses: (16 credits)

Geog 210	Physical Geography	4
Geog 230	Environment and Society: Global Perspectives	4
Geog 488/USP 591	Geographic Information Systems I: Introduction	4
Geog 492/USP 592	Geographic Information Systems II: Advanced GIS	4

Plus three additional courses from the list of electives: (12 credits)

Geog 475	Digital Compilation and Database Design	4
Geog 480	Remote Sensing and Image Analysis	4

Geog 481	Digital Image Analysis I: Introduction	4
Geog 482	Digital Image Analysis II: Advanced Remote Sensing	4
Geog 484	Cartographic Applications of GIS	4
Geog 485	Map Design and Production	4
Geog 489	Building a GIS Database with GPS	4
Geog 490	GIS Programming	4
Geog 493	Digital Terrain Analysis	4
Geog 494	GIS for Water Resources	4
Geog 495	Maps, Models, and GIS	4
Geog 496	Introduction to Spatial Quantitative Analysis	4
Geog 497	Advanced Spatial Quantitative Analysis	4

All courses submitted to satisfy requirements for the minor in GIS must be graded and passed with a C- or better. At least 16 credits must be taken in residence at PSU.

Subtotal: 28

Students who are also working toward the major in Geography must take (in addition to the core courses for the GIS minor) at least 12 credits from the list of electives that will be uniquely applied to the GIS minor.

Students considering the GIS minor are strongly encouraged to meet with a geography adviser to work out an instructional program that best meets their needs.

GEOGRAPHY SECONDARY EDUCATION PROGRAM

Adviser: See CLAS Advising

(See Interdisciplinary Studies (p. 254))

Graduate programs

The Department of Geography offers the degrees of Master of Arts, Master of Science, Master of Arts in Teaching, and Master of Science in Teaching (General Social Science). The department also participates in the Earth, Environment, & Society Ph.D. degree.

Areas of primary concentration are urban geography, physical geography, resource management, culture, environment and society, GIS, and cartography. The M.A. and M.S. degrees are in part designed to meet the needs of students preparing for careers in research or administration in government and industry, urban and regional planning, and in secondary education and community college teaching. The M.A. and M.S. degrees also provide a predoctoral program in geography for students planning to take advanced work leading to professional careers in university teaching, research, or public service. Students

are encouraged to follow a program that combines breadth of knowledge with depth in one field of interest.

ADMISSION REQUIREMENTS

For admission to graduate study for the M.A. and M.S. degrees, a student normally should have completed the minimum preparation for an undergraduate major in geography with a 3.00 grade point average in all work. Students with majors in other fields are encouraged to apply. Normally such students are admitted on a conditional basis, with the student required to take courses to remedy deficiencies.

In addition to the general University admission requirements for advanced degrees the student must provide the Graduate Record Examination (G.R.E.) scores and letters of recommendation from three faculty members of colleges previously attended.

Students for whom English is a second language must present a score of at least 550 (paper-based) or 213 (computer-based) in the Test of English as a Foreign Language (TOEFL) with their application for admission.

GEOGRAPHIC INFORMATION SYSTEMS GRADUATE CERTIFICATE

Certificate requirements: Successful completion of 20 specified graduate credits with a cumulative PSU graduate GPA of 3.0 or higher (all graduate credit taken at PSU) and a cumulative program GPA of 3.0 or higher (all courses used for the Graduate Certificate), distributed as follows: 8 credits of core courses and 12 credits of electives. All certificate requirements must be fulfilled within three calendar years of admission. Courses taken three years before the program completion date cannot be used to fulfill the program requirements. All certificate program courses must be taken for a letter grade (A-F). The program prerequisite, GEOG 380 (Maps and Geographic Information), cannot be used toward the certificate requirements.

REQUIRED CORE COURSES

Courses

Geog 588/USP 591	Geographic Information Systems I: Introduction	4
Geog 588L	And GIS Lab	
Geog 592/USP 592	Geographic Information Systems II: Advanced GIS	4
Geog 592L	And GIS II Lab	
Subtotal: 8		

A student may request a waiver of these courses from the program director on the basis of prior educational background under the following circumstances:

1. The student has taken the course at the undergraduate level or taken them as part of an undergraduate program at PSU.
2. If GIS I and GIS II equivalent were taken at another institution, syllabi from those courses must be submitted as part of the waiver request.

Waivers are at the discretion of the program director. If the waiver is not approved, a student must take GIS I and GIS II. If the waiver is approved a student must take additional credits from the following list to fulfill the required 8 credits of core curriculum:

Geog 575 Digital Compilation and Database Design (4)
Geog 581 Digital Image Analysis I: Introduction (4)
Geog 597 Spatial Quantitative Analysis (4)

ELECTIVES

12 credits from this list or similar discrete-numbered courses approved in advance by the director.

Courses

G 525	Field GIS	4
Geog 575	Digital Compilation and Database Design	4
Geog 580	Remote Sensing and Image Analysis	4
Geog 581	Digital Image Analysis I: Introduction	4
Geog 582	Digital Image Analysis II: Advanced Remote Sensing	4
Geog 584	Cartographic Applications of GIS	4
Geog 585	Map Design and Production	4
Geog 589	Building a GIS Database with GPS	4
Geog 590	GIS Programming	4
Geog 593	Digital Terrain Analysis	4
Geog 594	GIS for Water Resources	4
Geog 595	Maps, Models, and GIS	4
Geog 597	Advanced Spatial Quantitative Analysis	4
USP 543	Geographic Applications to Planning	4
USP 593	Public Participation GIS	3
Subtotal: 12		

Program Completion Application

Application for award of the Graduate Certificate must be filed by the student in the Office of Graduate Studies no later than the first week of the anticipated term of graduation (deadlines for each term are available at OGS).

Transfer Credits

Transfer credit is defined as eligible graduate credit taken at other accredited institutions. Two-thirds of the Graduate Certificate program requirements or 15 credits minimum, whichever is larger, must be taken at Portland State University. Transfer credits must be letter-graded with a B or higher and eligible for use in master's degree programs at PSU. The Proposed Transfer Credit form (GO-11GC) must be used for approval of transfer credit.

Experimental 510 Courses

Due to the fast developments in geospatial technologies, some experimental courses can be used toward the Certificate with the approval of the Program Director. Please verify the eligibility with the instructor or Geography department before taking a 510 course to fulfill the Certificate requirements. Each student can have a maximum of one 510 course per program. The experimental course can only be used as a substitute for an elective, not a core course. Joint campus courses (JC 510) are considered transfer credits for which all transfer credit limitations apply.

Course Overlap between Degrees and Certificates

Graduate courses can be applied to a master's (or a doctoral) degree and a graduate certificate. However, graduate courses cannot be applied to two different graduate certificates. See PSU Bulletin for more information about course overlap.

Total Credit Hours: 20

GEOGRAPHY M.A./M.S.

See University master's degree requirements (p. 51). Specific departmental requirements are listed below.

REQUIREMENTS

The student will plan a program of study with an adviser and other members of the supervisory committee during the first term of residence (the first term after admission to the program). The program of study must include a minimum of 45 graduate credits for thesis students and 54 graduate credits for non-thesis students. Of these, a minimum of 36 graduate credits must be in geography for the thesis option, to include 6 credits of Geog 503 (Thesis); a minimum of 40 graduate credits must be in geography

for the non-thesis option, including 3 credits of Geog 501 Research. Both thesis and non-thesis programs must include the following: Geog 521, Geog 522, and Geog 523.

Students seeking the M.A. degree must demonstrate their competence in the use of a foreign language for geographic research; those preparing for an M.S. degree must show proficiency in advanced skills in geography or an equivalent research technique (8 credits of Techniques/Skills coursework).

Students in the M.A. program must complete a thesis. Those in the M.S. program may choose between thesis and non-thesis options. The thesis option requires the presentation of the student's independent research into a topic approved by the student's graduate committee. It normally involves field work and is an original contribution to knowledge in the field of geography. A final oral examination by the student's committee includes defense of the thesis.

Candidates electing the non-thesis option must register for 3 credits of Geog 501 Research to rewrite, edit, and revise a research paper or project that must evolve from graduate coursework in geography at PSU. A final oral presentation of the paper is required for completion of the degree. All graduate students, whether in thesis or non-thesis programs, are encouraged to attend the department's colloquia.

The Geography Department follows the University requirement for minimum and continuous enrollment.

Geology

17A Cramer Hall (CH)
725-3022
www.geol.pdx.edu/

- B.A., B.S. in Geology
- B.A., B.S. in Earth Science
- Minor in Geology
- Minor in Computer Applications
- Minor in Environmental Geology
- Minor in Space and Planetary Science
- M.A., M.S.
- M.A.T. and M.S.T. (Science/Geology)
- Ph.D. in Earth, Environment, & Society

Undergraduate Programs

The Department of Geology offers programs leading to the bachelor's degree in geology and earth science, as well as studies in numerical modeling, geochemistry, glaciology, hydrogeology, engineering geology, planetary geology, and environmental geology.

The programs serve both majors in geology and earth science and non-majors: those who may wish to broaden their science background; those preparing to teach general or earth sciences or geology in elementary or secondary schools; and those preparing for a master's or a doctoral degree.

Post-baccalaureate students (with a bachelor's degree, not in geology) who wish to become professional geologists may complete this curriculum while doing both undergraduate and graduate work in geology.

Geologists are employed by government agencies at federal, state, county, and city levels; by independent consulting firms to work with engineers, architects and planners; in the construction, mining, and petroleum industries; and as teachers in elementary and high schools and at the college level.

Geologists who have graduated from PSU are employed as researchers in mitigation of environmental problems, assessment of ground and surface water resources, exploration, development and management of mineral and fuel resources, urban planning, GIS, evaluation of the effects of forest roads and quarries on watershed health, management of their own companies, and instruction at all educational levels.

Students majoring in geology and earth science should plan to complete the required mathematics, chemistry, and physics courses as early in their program as possible.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Geology's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

GEOLOGY B.S./B.A.

In addition to meeting the general University degree requirements, the major must meet the following departmental requirements:

REQUIREMENTS

Geology Courses (46-47 credits):

G 201	Dynamic Earth: Interior	3
G 202	Dynamic Earth: Surface	3
G 204	Geology Laboratory	1

G 205	Geology Laboratory	1
G 207	Computer Based Geology Laboratory	2
G 203	Historical Geology	3
G 206	Historical Geology Lab	1
G 312	Mineralogy	3
G 313	Methods in Mineralogy	2
G 314	Petrology	3
G 315	Lithology and Petrography	2
G 318	Processes in the Surface Environment	3
G 319	Processes in the Surface Environment: Methods	2
G 324	Data Management and Analysis	5
G 434	Structural Geology and Tectonics	5
G 435	Sedimentology and Stratigraphy	5
G 485	Geologic Mapping	4

4 credits of adviser-approved Field Camp may substitute for G485.

At least 16 credits of electives must be chosen from upper-division geology courses numbered G410 or higher:

This may include up to 8 credits of upper-division mathematics, science, or engineering courses approved by the undergraduate adviser. Students may use up to 4 credits from an approved summer field camp course.

Two terms of calculus plus one additional mathematics or statistics course (12 credits):

Mth 251	Calculus I	4
Mth 252	Calculus II	4

and

Mth 253	Calculus III	4
Mth 261	Introduction to Linear Algebra	4
Stat 451	Applied Statistics for Engineers and Scientists I	4

Allied Sciences Courses (25 credits):

Two terms of 200-level chemistry with labs:		
Ch 221	General Chemistry I	4
Ch 227	General Chemistry Laboratory	1
Ch 222	General Chemistry II	4
Ch 228	General Chemistry Laboratory	1

Two terms of 200-level physics with labs:		
Ph 201	General Physics	4
And		

Ph 202	General Physics	4
or		
Ph 203	General Physics	4
or		
Ph 211	General Physics (with Calculus) I	4
And		
Ph 212	General Physics (with Calculus) II	4
or		
Ph 213	General Physics (with Calculus) III	4
And		
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
and		
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
or		
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
	One additional 200-level chemistry or physics class with lab:	
Ch 223	General Chemistry III	4
Ch 229	General Chemistry Laboratory	1
or		
Ph 202	General Physics	4
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
or		
Ph 212	General Physics (with Calculus) II	4
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
or		
Ph 203	General Physics	4
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
or		
Ph 213	General Physics (with Calculus) III	4
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
or		
	Advisor-Approved 200+ level Biology Course with Lab	5

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling departmental major requirements.

Total Credit Hours: 99-100

EARTH SCIENCE B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, the major must meet the following departmental requirements:

Geology Courses

G 200	Field Studies	1
G 201	Dynamic Earth: Interior	3
G 202	Dynamic Earth: Surface	3
G 204	Geology Laboratory	1
G 205	Geology Laboratory	1
or		
G 207	Computer Based Geology Laboratory	2
G 203	Historical Geology	3
G 206	Historical Geology Lab	1
G 312	Mineralogy	3
G 313	Methods in Mineralogy	2
G 314	Petrology	3
G 315	Lithology and Petrography	2
G 318	Processes in the Surface Environment	3
G 319	Processes in the Surface Environment: Methods	2

At least 16 credits of electives must be chosen from upper-division geology courses

May include either G 355 or G 450, but excludes:

G 301	Geology for Engineers	3
G 340U	Life of the Past	4
G 341U	Geology of the Oregon Country	4
G 342U	Volcanoes and Earthquakes	4
G 344U	Geology and the National Parks	4
G 345U	Life in the Universe	4
G 346	Exploring Mars	4
G 351U	Introduction to Oceanography	4
G 352U	Minerals in World Affairs	4
G 353	Natural History of Dinosaurs	4
G 355	Earth and Space Sciences for Elementary Educators	4
G 374/Geog 320	Geomorphic Processes	4
G 450	Earth and Space Sciences for Middle/High School Educators	4
G 453	Geology of the Pacific Northwest	4
G 454	Cascade Volcanoes	1

Up to 8 credits may be taken in upper-division math, science, or engineering.

Eight credits from the following courses:

G 340U	Life of the Past	4
G 341U	Geology of the Oregon Country	4
G 342U	Volcanoes and Earthquakes	4
G 344U	Geology and the National Parks	4
G 345U	Life in the Universe	4
G 346	Exploring Mars	4
G 353	Natural History of Dinosaurs	4
G 374/Geog 320	Geomorphic Processes	4
G 453	Geology of the Pacific Northwest	4
G 454	Cascade Volcanoes	1

Non-Geology Courses**8 credits of upper-division pre-approved sustainability-related courses****Mathematics to include either****Option 1**

Mth 251	Calculus I	4
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Option 2

Mth 111	Introductory College Mathematics I	4
Mth 112	Introductory College Mathematics II or passing the appropriate placement test	4
Mth 212	Foundations Of Elementary Mathematics II	4

Statistics to include:

Stat 243	Introduction to Probability and Statistics I	4
Stat 244	Introduction to Probability and Statistics II	4

Stat 244: recommended

Allied Sciences

	One year of 200-level college chemistry or equivalent with labs	15
	One year of 200-level biology plus labs or One year of 200-level physics plus labs	15

Subtotal: 98-103

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling departmental major requirements.

GEOLOGY MINOR**REQUIREMENTS**

To earn a minor in geology, a student must complete a minimum of 29 credits (at least 14 credits of which must be taken in residence at PSU), to include the following:

Courses

G 200	Field Studies	1
G 201	Dynamic Earth: Interior	3
G 202	Dynamic Earth: Surface	3
G 204	Geology Laboratory	1
G 205	Geology Laboratory	1
	or	
G 207	Computer Based Geology Laboratory	2

Twenty upper-division credits in geology 20

Subtotal: 29

ENVIRONMENTAL GEOLOGY MINOR**REQUIREMENTS**

To earn a minor in environmental geology, a student must complete a minimum of 29 credits (at least 14 credits of which must be taken in residence at PSU) to include the following:

Courses

G 200	Field Studies	1
G 201	Dynamic Earth: Interior	3
G 202	Dynamic Earth: Surface	3
G 204	Geology Laboratory	1
G 205	Geology Laboratory	1
	or	
G 207	Computer Based Geology Laboratory	2
G 460	Soil Geomorphology	4
	or	
G 461	Environmental Geology	4

Sixteen upper-division credits chosen from:

G 312	Mineralogy	3
G 313	Methods in Mineralogy	2
G 318	Processes in the Surface Environment	3
G 319	Processes in the Surface Environment: Methods	2
G 322	Global Biogeochemical Cycles	5
G 324	Data Management and Analysis	5
G 341U	Geology of the Oregon Country	4
G 424	Geographical Information Systems for the Natural Sciences	4
G 434	Structural Geology and Tectonics	5

G 435	Sedimentology and Stratigraphy	5
G 440	Volcanology	4
G 443	Ground Water Geology	4
G 447	Environmental Sediment Transport	4
G 448	Chemical Hydrogeology	4
G 455	Environmental Coastal Geomorphology	4
G 459	Quaternary Climate	4
G 460	Soil Geomorphology	4
G 461	Environmental Geology	4
G 470	Engineering Geology	4
Subtotal: 29		

COMPUTER APPLICATIONS WITH AN EMPHASIS IN GEOSCIENCES MINOR

REQUIREMENTS

To earn a minor in *computer applications with an emphasis in geosciences*, a student must complete 30 credits (at least 24 credits of which must be taken in residence at PSU) to include the following:

Courses

G 324	Data Management and Analysis	5
G 326	Numerical Modeling of Earth Systems	5
	Three adviser-approved courses in advanced computer applications, with at least 4 credits outside of geology	12
	A one-term, adviser-approved, upper-division research project or practicum	4

Adviser-approved courses in advanced computer applications: these courses may come from any unit in the University but may not include 405 reading/conference courses

Subtotal: 30

SPACE PLANETARY SCIENCE MINOR

REQUIREMENTS

To earn a minor in space and planetary science, a student must complete a minimum of 28 credits (at least 16 credits of which must be taken in residence at PSU), to include the following:

Eight credits selected from the following:

G 201	Dynamic Earth: Interior	3
G 204	Geology Laboratory	1
G 202	Dynamic Earth: Surface	3
G 205	Geology Laboratory	1
	or	

G 207	Computer Based Geology Laboratory	2
	or	
Ph 121	General Astronomy	4
Ph 122	General Astronomy	4
	or	
Ph 361U/Sci 315U	General Astronomy I	4
Ph 362U/Sci 316U	General Astronomy II	4

Twenty credits of electives selected from the following

(may include other elective courses pre-approved by the undergraduate adviser.):

G 203	Historical Geology	3
G 206	Historical Geology Lab	1
	or	
G 340U	Life of the Past	4
G 345U	Life in the Universe	4
G 346	Exploring Mars	4
G 456	Astrogeology	4
G 446	Meteorites	4
G 404	Cooperative Education/Internship	1-2
G 405	Reading and Conference	1-2

Subtotal: 28

Prerequisite requirements exist only for G 446 Meteorites (G201 and one year of chemistry).

Students are encouraged to contact the Department of Geology and ask for the undergraduate adviser, for help in designing a program leading to a minor in geology, environmental geology, computer applications. Please contact Dr. Alex Ruzicka for help with the space and planetary science minor. Upper division courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling departmental minor requirements with the exceptions of G 404 and G 405 which are offered only for pass/no pass.

Graduate Programs

The Department of Geology offers programs leading to a graduate certificate, the Master of Arts or Master of Science in geology, an option in geohydrology, the Master of Arts in Teaching or Master of Science in Teaching (Science), and to the Earth, Environment, & Society Doctoral Program.

The M.A./M.S. program is designed to train geology students beyond the baccalaureate degree for professional employment or for advanced graduate work. The M.A.T./M.S.T. program is offered for teachers in secondary schools and community colleges.

Geology participates in the Earth, Environment, & Society Doctoral Program. Specialized studies in hydrogeology, geomicrobiology, environmental geology, engineering

geology, geomechanics, glaciology, and applied stratigraphy, along with multidisciplinary environmental science courses and seminars, will partially fulfill the requirements for the Ph.D. See Earth, Environment and Society Ph.D. (p. 185) for information relative to the Ph.D. program in Earth, Environment, & Society.

ADMISSION REQUIREMENTS

Master of Arts and Master of Science

To be admitted to the graduate degree program, the student must have a baccalaureate degree in geology or its equivalent, as determined by the departmental graduate committee. It is required that the General Graduate Record Examination be taken before admission.

Master of Arts in Teaching or Master of Science in Teaching

The College of Liberal Arts and Sciences offers the M.A.T./M.S.T. degrees in Science/Geology. To be admitted to the M.A.T./M.S.T. program in Science/Geology, a student must hold a bachelor's degree in geology, or in the physical or life sciences—including the equivalent of a minor in geology. Students must take the general Graduate Record Examination and submit scores before admission for advising purposes.

GEOLOGY M.A./M.S.

See University master's degree requirements (p. 51). Specific departmental requirements for the M.S./M.A. Geology or the M.A./M.S. Geology-Geohydrology with a thesis option are:

1. Completion of a minimum of 45 credits in approved graduate courses.
 - a. Students must take G 523 Statistics and Data Analysis in the Geosciences unless already taken as G 423 as an undergraduate.
 - b. Students must take at least 8 credits in geology courses numbered G 610 or higher.
 - c. Students must take at least another 12 credits (16 credits if G 423 Computer Application in Geology was completed as an undergraduate) in the field of geology from G 510 or higher level courses.
 - d. A maximum of 9 credits will be allowed for courses numbered G 501 Research, G 504 Cooperative Education/Internship, G 505 Reading and Conference, or G 506 Special Problems. These courses are offered for P/NP credit only.
 - e. Students must complete at least 6 credits of G 503 Thesis (P/NP only); up to 9 credits can count for the degree.

2. The department will evaluate a student's record for deficiencies at the time of admission and develop a list of courses that must be completed for a grade of B or better in each course within a length of time specified in the admission letter.
3. Completion of field camp (could have been taken as an undergraduate) or equivalent field experience as approved by the field camp director.
4. Presentation of a thesis.
5. Completion of a final oral examination (thesis defense) taken before the end of the sixth week of the final term in residence.

Specific departmental requirements for the M.A./M.S. Geology or the M.A./M.S. Geology-Geohydrology with a non-thesis (project) option are:

1. Completion of a minimum of 45 credits in approved graduate courses of which 36 must be for differentiated grades (A-F).
 - a. Students must take G 523 Statistics and Data Analysis in the Geosciences unless already taken as G 423 as an undergraduate.
 - b. Students must take at least 8 credits in geology courses numbered G 610 or higher.
 - c. Students must take at least another 12 credits (16 credits if G 423 Computer Application in Geology was completed as an undergraduate) in the field of geology from G 510 or higher-level courses.
 - d. Student must complete 3 credits in G 501 Research.
 - e. A maximum of 3 additional credits will be allowed for courses numbered G 501 Research, G 504 Cooperative Education/Internship, G 505 Reading and Conference, and G 506 Special Problems or similarly numbered courses in other departments. These courses are offered for P/NP credit only.
2. The department will evaluate a student's record for deficiencies at the time of admission and develop a list of courses that must be completed for a grade of B or better in each course within a length of time specified in the admission letter.
3. Completion of field camp (could have been taken as an undergraduate) or equivalent field experience as approved by the field camp director.
4. Presentation of a research project.
5. Completion of a final oral examination on the subject area and the research project.

GEOLOGY M.A.T./M.S.T.

In consultation with the graduate adviser, the student should establish the degree program before the completion of 16 credits of coursework. The program must include a minimum of 45 credits in approved graduate courses, to include a minimum of 30 credits in geology and related sciences, and 6 credits in G 506. At least 9 credits must be in education courses. In order to fulfill requirements for the degree, the student must satisfactorily complete the degree program and pass both a final written examination and a final oral examination.

History

441 Cramer Hall (CH)
725-3917
www.pdx.edu/history/

- B.A., B.S.
- Minor in History
- Minor in World History
- Minor in History and Philosophy of Science
- Minor in Medieval Studies
- M.A.

Undergraduate Program

Students of history, through investigation of the past, gain skills and perspectives that foster a better understanding of the world and their place in it. The study of history contributes to the goals of a liberal arts education by enabling students to gain a deep appreciation of the diversity of human experience over time. Through the study of history, students learn how to interpret their own experience and to shape their own values by engaging in dialogues with the past. The study of history also nurtures the ability to view the world from multiple perspectives, including interdisciplinary ones. Finally, history provides the foundation for informed participation in both the local and the global community by teaching how to apply critical thinking skills to solving problems. The study of history offers excellent training for a variety of occupations, from teaching to law, government, business, and the arts.

The Department of History encourages active engagement in historical inquiry, whether at the introductory survey level, in seminars, or in community-based learning. Active engagement requires students to learn how to master basic knowledge, ask historical questions, access and evaluate information, and communicate what they have learned in both written and oral forms. Helping students master the use of a variety of sources and tools to unlock the past is a goal of all history courses.

The combined expertise of faculty in the Department of History encompasses a diversity of fields ranging from Oregon and the Pacific Northwest to world history. The

department offers lower-division surveys in World History, and U.S. history, but the gateway course for the major is Hst 300 Historical Imagination, which provides an introduction to the discipline—both the theory and practice—of history. Advising is critical, because majors are encouraged to develop their own thematic, chronological, or geographical focus through their choice of upper-division elective courses. Upper-division offerings include a wide range of subject areas, from the ancient Near East to American Family History. Reading seminars (Hst 491) and research seminars (Hst 492) on specialized topics—such as medieval Spain or Japanese nationalism—provide the opportunity for majors to write a substantial research paper and to participate in intensive reading and discussion of topics. Hst 490 Comparative World History—a thematic course—is required for the major to ensure that students develop the ability to frame what they know in a world historical context and to apply comparative analysis to important historical topics.

In line with the University's mission as an urban, public institution, the Department of History supports partnerships with the Oregon Historical Society and other local and regional museums, archives, and historical societies and offers training in public history. All faculty consider both teaching and research, along with community service, to be part of their responsibilities as members of the Department of History. The creation of knowledge, as well as its dissemination through teaching and publication, is a vital part of the department's mission.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for History's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

HISTORY B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, the major in history must meet the departmental requirements listed:

Courses		
	Lower-division history electives (20 maximum)	20
Hst 300	The Historical Imagination	4
Hst 490	Comparative World History	4

Hst 491	Reading Seminar	4
Hst 492	Research Seminar	4
	Upper-division electives in history	24-44

Upper-division electives: Selected in consultation with major adviser, these courses may be geographic, thematic, or period-based.

- All courses are to be taken for differentiated grades, and the history major must earn at least a C- in each course presented to meet major requirements.
- Of the electives students apply to the upper-division history major requirements, at least two courses must examine a non-European and non-U.S. subject, and at least two courses must examine either Europe or the United States.
- Students are required to take at least one linked Reading Seminar (491) and Research Seminar (492) sequence.
- A minimum of 20 credits in history must be taken at the 400-level (including courses that count toward other major requirements, such as Hst 490, Hst 491, and Hst 492).
- A maximum of 20 lower-division credits in history may be applied to the major requirements.
- A minimum of 32 credits in history must be taken in residence at Portland State University.

Total Required Credits in History: 60

HISTORY HONORS OPTION

The honors track in history affords outstanding history majors the opportunity to propose, carry out, and formally present independent research on a topic of their choosing, under the guidance of a faculty adviser. Students who successfully complete an approved thesis and its associated 14 or 16 credit-hour department honors curriculum will be formally designated History Honors graduates and receive notice of this distinction on their diplomas. Students who wish to pursue the honors in history option must apply to do so after having completed a minimum of 24 credit hours in the major and before they have attained senior standing. The history honors option requires a 3.50 GPA in history prior to admission to the program.

The History Honors option requires an undergraduate thesis which students produce in their junior and senior years. Following successful admission to the program, during the junior year the student develops a thesis topic in a reading and conference course (four credits of Hst 405) directed by a faculty member who has agreed to supervise the student's honors thesis. In the senior year, the first term

is devoted to research (four credits of Hst 401), the second term to writing (four credits of Hst 403), and the third to presentation and revision of the thesis (two to four credits of Hst 403).

HISTORY MINOR

REQUIREMENTS

To earn a minor in history a student must complete 28 credits, 16 of which must be at the upper division level and 8 at the 400 level.

Subtotal: 28

- All courses are to be taken for differentiated grades and the history minor must earn at least a C- in each course presented to meet minor requirements.
- A minimum of 16 credits in history in residence at Portland State University is required.

WORLD HISTORY MINOR

REQUIREMENTS

The World History Minor requires the completion of 28 credits from the following list of courses.

Required Courses

Hst 390	Topics in World History	4
Hst 490	Comparative World History	4

Electives

Lower Division

Hst 104	Introduction to World History	4
Hst 105	Introduction to World History	4
Hst 106	Introduction to World History	4

Upper Division

Hst 339U	The Environment and History	4
Hst 361	Modern France & the World since 1815	4
Hst 369U	Women in World History	4
Hst 387U	History of Modern Science	4
Hst 390	Topics in World History	4
Hst 413	Topics in Transnationalism	4

Students must complete 16 credits at the upper-division level, 4 of which must be at the 400 level.

Subtotal: 28

All courses are to be taken for differentiated grades; pass/no pass courses cannot be counted toward the minor. Students must earn at least a C- in each course presented to meet minor requirements.

A minimum of 16 credits in History in residence at Portland State University is required for the minor.

HISTORY/PHILOSOPHY OF SCIENCE INTERDISCIPLINARY MINOR

REQUIREMENTS

The interdisciplinary minor in history and philosophy of science requires 32 credits distributed as follows:

Two core courses

Hst 387U	History of Modern Science	4
Phl 470	Philosophy of Science	4
	or	
Phl 471	Topics in Philosophy of Science	4

Six elective courses chosen from (24 credits)

Anth 325U	Culture, Health, and Healing	4
Anth 414	Culture and Ecology	4
Bi 346U/WS	Genes and Society	4
346U		
Ch 170	Fundamentals of Environmental Chemistry	4
Ch 360U	Origins of Life on Earth	4
CS	Exploring Complexity in Science and Technology	4
346U/SySc		
346U		
Ec 460	History of Economic Thought	4
ESM 330	Environmental and Ecological Literacy	4
G 333	Evolutionary Concepts	4
Geog 366U	Historical Geography of North America	4
Geog 347U	Environmental Issues and Action	4
Hst 427	Topics in the History of Science	4
Hst 434	U.S. Social and Intellectual History, 1865-present	4
Hst 440	American Environmental History	4
Hst 460	Topics in European Intellectual History	4
Mth 486	Topics in The History of Mathematics	3
Phl 301U	Ancient Philosophy	4
Phl 303	Early Modern Philosophy	4
Phl 305U	Philosophy of Medicine	4
Phl 306U	Science and Pseudoscience	4
Phl 307U	Introduction to the Philosophy of Social Science	4
Phl 318U	Philosophy of Medicine	4
Phl 470	Philosophy of Science	4
Phl 471	Topics in Philosophy of Science	4
PS 319	Politics of the Environment	4
Sci 321U	Energy and Society I	4
Sci	Science, Gender, and Social	4
347U/WS	Context I	
347U		

Sci	Science, Gender, and Social	4
348U/WS	Context II	
348U		
Sci 355U	Science Through Science Fiction	4
Sci 359U	Biopolitics	4
Sci 361U	Science: Power-Knowledge	4
Soc 459	Sociology of Health and Medicine	4

Hst 427: (with different topics, may be repeated for credit)

Hst 460: (with different topics, may be repeated for credit)

Phl 470: (If not included as core course)

Phl 471: (If not included as core course)

Students should take note of any prerequisites established by the respective departments.

For advising concerning the minor, consult the History Department office.

MEDIEVAL STUDIES MINOR

The interdisciplinary minor in medieval studies is an interdisciplinary program with courses offered in the departments of Art History, English, History, Philosophy, World Languages and Literatures, and Theatre and Film. Students will fulfill 28 credits of coursework in a minimum of three disciplines, distributed as follows:

- Courses must be completed in at least three separate departments or programs;
- At least 20 credit hours must be completed in upper-division courses, with at least 8 of those credit hours at the 400-level.

REQUIREMENTS

Courses may be selected from the list below:

ArH 329	Islamic Art: Major Themes and Periods:	4
ArH 356U	Early Medieval Art and Architecture	4
ArH 357U	Byzantine Art and Architecture	4
ArH 358U	Romanesque Art	4
ArH 359U	Gothic Art and Architecture	4
ArH 361U	Northern Renaissance Art	4
ArH 371U	Italian Renaissance Art	4
ArH 432U	Issues in Gender and Art	4
Eng 319U	Northern European Mythology	4
Eng 340U	Medieval Literature	4
Eng 426	Advanced Topics in Medieval Literature	4
Eng 447	Major Forces in Literature	4
Eng 448	Advanced Topics: Major Figures in Literature	4
Eng 449	Advanced Topics in Cultural Studies	4

Fr 341U	Introduction to French Literature	4
Ger 341U	Introduction to German Literature	4
	Grk-101-203-First-and-second-year-Greek	4
Hst 350U	English History from 1066 to 1660	4
Hst 352U	European Women's History to 1700	4
Hst 354U	Early Medieval Europe: 300-1100	4
Hst 355U	Late Medieval Europe, 1100-1450	4
Hst 416	Topics in Roman History	4
Hst 450	Medieval England	4
Hst 452	Topics in the History of European Women	4
Hst 453	The Medieval City: Communities of Conflict and Consensus	4
Hst 454	Topics in Medieval History	4
Hst 461	Topics in Jewish History	4
Hst 475	Topics in Early Russian History	4
Hst 491	Reading Seminar	4
Hst 492	Research Seminar	4
Jpn 341U	Topics in Japanese Literature (In Translation)	4
JSt 317U/Hst 317U	Jewish History from Antiquity to the Medieval Period	4
JSt 319U/Hst 319U	Rabbinic Culture in the Roman World	4
JSt 378U/Hst 378U	Pagans, Christians and Jews	4
JSt 381U/Hst 381U	Kabbalah: The Jewish Mystical Tradition	4
	Lat 101-203 First-and second-year Latin	4-24
Lat 331U	Early Medieval Civilization	4
Phl 302U	Medieval Philosophy	4
Span 341	Pre-Modern Cultural and Literary Foundations	4
Span 441	Major Works in Translation	4
TA 471	Theater History: Periods and Topics	1-4
WLL 335U	The Icelandic Sagas	4

Minor Coordinator approval required for: ArH 407, ArH 432U, ArH 450, Eng 448, Hst 378U, Hst 381U, Hst 452, Hst 461, Hst 491, Hst 492, Jpn 341U, Span 441

Fr 341U: taught in French

Ger 341U: taught in German

Span 341U: taught in Spanish

All courses must be passed with a C- or better.

For advising concerning the minor, please consult the History Department office.

Graduate Program

ADMISSION REQUIREMENTS

Master of Arts

The Department of History offers a Master of Arts degree. The degree program is designed to develop historians with special competence by systematic training in the content, methods, and interpretation of history. Although each degree program will vary, as will the individual's purpose for pursuing graduate work, the same level of scholarly competence and intellectual attainment is expected of all students.

To be considered for admission to the graduate study, applicants normally should have the minimum preparation undertaken by an undergraduate major in history and should demonstrate good research and writing skills. Most students admitted to the program have maintained a GPA of at least 3.50 in upper-division history courses. Non-history majors or students with a lower history GPA may be considered for admission to the graduate program on a qualified basis. In addition to the University application for graduate studies, students are required to submit:

- Their score on the Graduate Record Examination,
- Two letters of recommendation from faculty or other individuals who can evaluate their preparation for graduate studies,
- A statement of purpose, describing their objectives in graduate study,
- Two examples of their writing, preferably history research papers.
- Foreign students must comply with the University requirements of a minimum grade of 550 in the Test of English as a Foreign Language (TOEFL).

Applications for fall-term admission are due by February 15.

HISTORY M.A.

See University master's degree requirements (p. 51). Specific departmental requirements for the M.A. in history are listed below.

A minimum of 48 credits of approved graduate-level courses are required for the M.A. in history. Of these 48 credits students must complete a minimum of 36 credits in history, to include two seminars (Hst 592) and 8 credits of

thesis writing (Hst 503). With the approval of their thesis adviser, students can apply to their M.A. program a maximum of 12 credits from graduate courses taken outside of history. Students are normally admitted for the fall term and are strongly advised to complete Hst 500 (Introduction to the Master's Program in History) in the first term of study.

In addition to coursework, students are required to complete, prior to the thesis, the following qualifying requirements:

- Passing two written field examinations
- Fulfilling the University's and the department's foreign language requirements for the M.A. degree (see below)
- Successfully submitting a thesis proposal

Field Exams

The two written examinations are administered by two regular (tenured or tenure-track) members of the department. One field examiner ordinarily serves as the main thesis adviser, and the other examiner also serves on the thesis committee. The two fields must be mutually distinct, and are defined geographically and/or thematically—there may also be a chronological delimitation—by agreement between the student and the respective examiners. Coursework for the M.A. must include minimum of 12 credit hours for the first field and a minimum of 8 credit hours for the second field. Examples of the definition of fields, and guidelines for the examinations, are available from the Department Office.

Foreign Languages

Graduate students should demonstrate proficiency in a foreign language germane to their thesis field no later than the point at which they have completed 32 credits of graduate study. Per university policy, proficiency may be demonstrated by successfully completing language coursework equivalent to PSU's 203-level course, or by passing an examination administered for this purpose by the Department of World Languages and Literatures. However, some fields of research may require language preparation beyond the formal University requirements. All M.A. students are urged to consult their advisers about expectations for study of languages prior to or soon after admission to the program.

Thesis

The Master of Arts in history culminates in the preparation and defense of a thesis based upon primary source research that follows from a program planned in consultation with the student's adviser. A thesis proposal is submitted to the two field examiners, one of whom also serves as the thesis adviser. Once it is accepted, a copy of the proposal is filed in the Department Office. Guidelines for the thesis proposal are available from the thesis adviser or the Department Office. Upon completion of the thesis, each

student must successfully defend it in an oral examination before a committee comprising the thesis adviser, the other field examiner, a third reader from the History Department, and a member from outside the History Department.

Re-enrollment

Per university policy (p. 47), students in the M.A. program who do not have an approved leave of absence and who fail to successfully complete a History graduate course over a one-year period will have their enrollment in the program cancelled. For thesis credit, HST 503, "In Progress" counts as successful completion. To re-enroll, students must 1) have maintained a minimum 3.00 GPA in History graduate classes; 2) have completed without incompletes or withdrawals at least two thirds of their courses; 3) submit a plan for completion of the degree program—including (as appropriate) remaining coursework, field and language exams, and thesis—endorsed by their major adviser.

PUBLIC HISTORY TRACK

Students wishing to pursue a career in public history are urged to consider the department's public history M.A. track. Public history students take field courses, seminars, internships, and laboratory courses that cover a broad range of public history sub-fields, including: archival management, oral history, museology, cultural resource management, site interpretation, publication, and historic preservation. Coursework includes a balance of classroom and practical offerings. Students choosing the public history track as their primary field are required to have a second field defined geographically. In addition to fulfilling all other requirements for a Master of Arts in history, students are also required to complete the following:

1. Required Courses

Hst 593	Introduction to Public History	4
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(unless student has successfully completed HST 496 as an undergraduate);

2. a public product

(e.g., exhibit, Web site, public program, audio, or video document);

3. one public history seminar

Hst 594	Public History Seminar	4
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4. a minimum of 6 public history internship credits

Hst 504	Public History Internship	6
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5. one public history lab course

Hst 595	Public History Lab	4
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WORLD HISTORY TRACK

A specialization in world history is available through the department's world history M.A. track. Students pursuing the world history track fulfill all the requirements for a Master of Arts in History, choosing world history as their

primary field. In addition, the world history track requires two regional concentrations as the secondary field. The field requirements for the world history track thus include:

1. 12 credits of Hst 590 Comparative World History

[an appropriate adviser-approved course can replace 4 credits of Hst 590]

2. Two regional concentrations, with a minimum of 8 credits in each (at least 16 credits total)

Regular M.A. students can still choose world history as a secondary field and fulfill this requirement in the standard way by taking 8 credits of Hst 590.

Indigenous Nations Studies

150 Parkmill Building (PKM)
503-725-5920
www.pdx.edu/nas/

- Minor in Indigenous Nations Studies
- B.A., B.S. in Indigenous Nations and Native American Studies

Indigenous Nations Studies (INST) is an interdisciplinary program with coursework drawn from emerging and Native scholars and interweaves Indigenous Ways of Knowing with elements from Anthropology, English, History, Public Administration, Social Work, and other departments and schools. The substantive focus of this curriculum is the sovereignty, scholarship and cultures of American Indians, Alaska Natives, and global Indigenous communities.

Undergraduate programs

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Indigenous Nations Studies' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the program is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

INDIGENOUS NATIONS STUDIES MINOR

The program offers a minor that is meant to serve three primary student constituencies:

- students who have a serious academic interest in Indigenous Ways of Knowing and who wish to

combine the study of Native Epistemologies with their major;

- students who plan careers in non-profit, education, social services, tribal government, and academic sectors and wish to develop a diverse eye towards working with Native/Indigenous communities;
- students who have a nascent interest in Native/Indigenous communities and wish to fulfill their general education requirements with courses in this area.

The objective of the internship requirement is to place INST students in community or government organizations so that each student has an opportunity to acquire understanding of Native issues.

For information and advising, contact the Program Coordinator, Josh Powell at josh@pdx.edu.

REQUIREMENTS

Courses

NAS 201	Introduction to Native American Studies	4
NAS 404	Cooperative Education/Internship	4

Upper-division credit courses chosen from the following (or other adviser-approved courses) 24 credits

Anth 313U	Indian-White Relations	4
Anth 314U	Native Americans	4
Anth 364U	The Archaeology of the Pacific Northwest	4
Anth 365U	The Archaeology of North America	4
Anth 366U	The Archaeology of Mesoamerica	4
Anth 417	Advanced Topics in Native American Studies	4
Anth 422	Contemporary American Indian Policy	4
Anth 464	Topics in Northwest Archaeology	4
Eng 305U	Topics in Film	4
Eng 309U	Indigenous Nations Literature	4
Hst 330U	Native Americans of Eastern North America	4
Hst 331U	Native Americans of Western North America	4
Hst 349U	United States Indian Policy	4
Hst 464	Indians of the Pacific Northwest	4
NAS 301	Introduction to Native American Languages	4
NAS 417	Maintenance and Revitalization of Endangered Languages	4
Psy 410	Native American Psychological Healing	4

Psy 410	Native American Psychological Thought and Values	4
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Subtotal: 28

INDIGENOUS NATIONS AND NATIVE AMERICAN STUDIES B.A., B.S.

The Indigenous Nations and Native American Studies is pending approval from the Oregon Higher Education Coordinating Commission.

The major in Indigenous Nations and Native American Studies (INNAS) is 56 credits.

The major focuses on critical studies and practices of Tribal race theory, decolonizing methodologies, traditional and cultural ecological knowledge, and contemporary themes, such as community health, food sovereignty, Indigenous land/resource management, community development, resilience, and self-determination.

COURSE OF STUDY

Core Courses (24 credits)

NAS 201	Introduction to Native American Studies	4
NAS 344	Indigenous Women Leadership	4
NAS 346	Contemporary Issues in Indian Country	4
NAS 392	Indigenous Ways of Knowing	4
NAS 426	Tribal Critical Race Theory	4
NAS 442	Decolonizing Methodologies: Insurgent Research and Indigenous Education	4

Subtotal: 24

Experiential Learning Requirement (8 credits)

NAS 404	Cooperative Education/Internship	4
NAS 407	Traditional Ecological Healing Practices	4

Subtotal: 8

Electives (24 credits)

8 or more credits must be NAS courses; no more than 4 credits may be lower-division.

NAS 301	Introduction to Native American Languages	4
NAS 306	Red Power	4
NAS 334U	Topics in Film Genres and Movements	4
NAS 335U/Eng 335U	Topics in Literature and Film	4
NAS 342	Indigenous Gardens and Food Justice	4
NAS 348	Indigenous Practices for Environmental Sustainability	4
NAS 399	Indigenous Sciences	4

NAS 399	Native American Music	4
NAS 399	Native American Politics & Activism	4
NAS 399	Queer Indigenous Studies	4
NAS 399	Urban Indians	4
NAS 410	Decolonizing via Indigenous Art	4
NAS 411	Nationhood: Tribal Sovereignty, Governance & Policy	4
NAS 417	Maintenance and Revitalization of Endangered Languages	4
Anth 314U	Native Americans	4
Anth 320	Native Americans of the Northwest Coast	4
Anth 417	Advanced Topics in Native American Studies	4
Anth 422	Contemporary American Indian Policy	4
Anth 456	Issues in Cultural Resource Management	4
BSt 326U	Cuba, Dominican Republic, Puerto Rico	4
ChLa 303U	Chicana/Latina Experience	4
ChLa 331	Barrio Culture: Art and Literature	4
ChLa 375U	Southwestern Borderlands	4
ELP 410	Nonviolence, Sustainability & Education: Gandhi's Philosophy in Practice	4
Eng 309U	Indigenous Nations Literature	4
Hst 330U	Native Americans of Eastern North America	4
Hst 331U	Native Americans of Western North America	4
Hst 349U	United States Indian Policy	4
PS 432	Great Tribal Leaders	4
Psy 410	Native American Psychological Healing	4
Psy 410	Native American Psychological Thought and Values	4
SW 465	Introduction to Indian Child Welfare and the Indian Child Welfare Act	4
SySc 350U	Indigenous and Systems Perspectives on Sustainability	4

Subtotal: 24

NOTE: Other variable and special topic courses with a focus on Indigenous Nations, Native Americans, and American Indians/Alaska Natives may count as electives; in these instances students should consult with an INNAS advisor for approval.

Capstones

Students may complete these capstones as electives in INNAS, but must do so outside of their UNST graduation requirements.

UnSt 421	Cultural and Ecological Education	6
UnSt 421	Environmental Education Through Native American Lenses	6
UnSt 421	Indigenous Grantwriting	6
UnSt 421	Tutoring, Mentoring & Empowerment at NAYA	6
UnSt 421	Environmental Justice and Salmon	6

The minimum grade allowed to pass major requirements will be 1.7 C-. P/NP grading option are by arrangement only and subject to department approval.

Total Credit Hours: 56

Interdisciplinary Studies: Arts and Letters, Liberal Studies, Science, Social Science

M305 Smith Memorial Student Union (SMSU)
503-725-3822

- B.A., B.S. (Arts and Letters, Liberal Studies, Science, and Social Science)

Programs which are of an interdisciplinary nature and which do not conveniently fit within the normal department areas are listed under Interdisciplinary Studies and Liberal Studies.

Students interested in Interdisciplinary Studies will complete their major requirements by taking a concentration of courses in the arts and letters or science or social science academic areas. Students interested in all three categories (arts and letters, science, and social science) major in Liberal Studies by taking upper-division courses across all three categories.

Outside of the requirement that Interdisciplinary Studies and Liberal Studies students take Wr 323 or a Writing Intensive Course (WIC), there are no specific courses required for the Interdisciplinary Studies and Liberal Studies majors. To take full advantage of the opportunities afforded these majors, students should plan a program which includes a coherent set of courses providing an in-depth study in the area of special interest as well as providing enhancement of problem-solving and communication skills.

Undergraduate program

For advising in these majors, please go to:
<https://www.pdx.edu/advising/advising-locations>

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Interdisciplinary Studies' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

INTERDISCIPLINARY STUDIES B.A./B.S.

ARTS AND LETTERS

For a list of courses under the **Arts and Letters** academic distribution area, review the Requirements website.

SCIENCE

For a list of courses under the **Science** academic distribution area, review the Requirements website.

SOCIAL SCIENCE

For a list of courses under the **Social Science** academic distribution area, review the Requirements website.

In addition to meeting all of the non-major and general education baccalaureate degree requirements, a student in one of the above majors must complete 52 credits in one of the following areas: arts and letters or science or social science. A minimum of 32 of the 52 credits must be upper-division with at least 8 upper-division credits in each of two departments. In addition to 52 credits, all students must take Wr 323 or a Writing Intensive course for a total of 56 credits.

Courses

Upper-division credits from one department in the major academic area	8
Upper-division credits from a second department in the major academic area	8
Additional upper division credits from any department(s) in the major academic area	16
Additional credits in the major academic area	20

Wr 323	Writing as Critical Inquiry	4
	or	
	WIC course	4

Subtotal: 56

LIBERAL STUDIES

A student majoring in liberal studies must complete the general University requirements (except general education

requirements), either Wr 323 or an approved Writing Intensive Course, and the following requirements for the liberal studies major:

Courses

Upper-division credits from the arts and letters, science and/or social science academic distribution areas	81
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4 credits Wr 323, or an approved Writing Intensive Course which can be included in the 81 upper-division requirements.

Courses used to satisfy the major requirements, whether taken at PSU or elsewhere, must be graded C- or above. A maximum of 12 credits may be graded P.

Students majoring in Liberal Studies and also in a second major must meet the general education requirement and the upper-division requirement in the academic distribution areas for the second major.

BILINGUAL TEACHER PATHWAY PROGRAM

The Bilingual Teacher Pathway program is an initial teacher licensure program designed for bilingual paraprofessionals working in local partner school districts. It is currently only available for paraprofessionals/prospective teachers at the elementary level.

The program consists of 66-70 credits, including BTP core courses as well as requirements for the ESOL endorsement, which are offered in a 2-year cohort model beginning every fall term. Prior to starting this program at either the undergraduate or graduate level, students are required to complete MTH 211, MTH 212, MTH 213, and LIB 428 (or an equivalent course in children's literature) with grades of B- or better, which amounts to at least 15 credits of prerequisites.

For a student to enter this program at the undergraduate level, they are expected to have earned a minimum of 120 credits total, including those prerequisite courses, WR 323 (or another 4-credit upper division writing intensive course), and at least 15 upper division credits in the academic distribution areas of Arts & Letters, Science, and Social Science, which can include credits from WR 323.

Undergraduate credits can be applied toward the bachelor's degree in Liberal Studies. www.pdx.edu/ci/btp.

Judaic Studies

Suite 465, University Center Building (UCB)
1881 SW 5th Avenue
Portland, OR 97201-5230
503-725-8449

www.pdx.edu/judaic/

- B.A.
- Minor

Undergraduate programs

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Judaic Studies' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the program is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

JUDAIC STUDIES B.A.

The Harold Schnitzer Family Program in Judaic Studies was established to foster academic achievement, civic engagement, and leadership skills through rigorous and in-depth interdisciplinary study of Jewish history, culture, and civilization. The interaction of our four core faculty members—working in the study of ancient Jewry, modern Jewish history, Israel Studies, and Jewish literature—together with affiliated faculty in Hebrew language, medieval history, and Middle East Studies creates an enriching and stimulating atmosphere. Thanks to the program's intimate learning environment, students benefit from the type of personal attention normally associated with small liberal arts colleges while still having the advantages of a large urban university.

The major in Judaic Studies trains students of all backgrounds in the skills and tools associated with the academic study of Judaism and Jewish culture, offering knowledge and understanding of a major world civilization, with important and widely applicable lessons in close reading, canonicity, historical analysis, the complexity of identity, and the dynamics of tradition and modernity. Through exploration of Jewish culture, Jewish contributions to other cultures, and the impact of modernity on national, ethnic, and religious identity, students will have broadened and deepened their education, better preparing them for our interconnected world of diverse cultures and religions.

Students completing the major are required to take Introduction to Judaism, both terms of the two-term sequence in Jewish history, and three years of modern Hebrew (or the equivalent). They must also choose an area of concentration (Jews in Antiquity; Israel Studies;

Judaism; Literature, Culture, and the Arts; and Modern Jewish History) in which they will take at least 12 credits.

Students undertaking the major in Judaic Studies at PSU may be eligible for the following scholarships: the Lois Berlin, John May, Ida & Sam Shleifer Endowed Scholarship, the Abigail Jacobs-Kaufman Scholarship, the Sara Glasgow Cogan Memorial Scholarship, and the Lorry I. Lokey Israel Travel Scholarship .

DEGREE REQUIREMENTS

Requirements for major. In addition to meeting the general University degree requirements, the major in Judaic Studies must meet the departmental requirements listed.

Upper-Division Courses

At least 12 of the upper division credits must be comprised of Judaic Studies program courses in one of the following areas:

Area A: Jews in Antiquity

JSt 317U/Hst 317U	Jewish History from Antiquity to the Medieval Period	4
JSt 319U/Hst 319U	Rabbinic Culture in the Roman World	4
JSt 324U	Historical Introduction to the Hebrew Bible/Old Testament	4
JSt 325U	Retelling the Bible	4
JSt 378U/Hst 378U	Pagans, Christians and Jews	4

Area I: Israel Studies

Eng 330U	Jewish and Israeli Literature	4
JSt 333U	Israeli Culture and Society	4
JSt 379U/Hst 379U	History of Zionism	4
JSt 388U	History of Modern Israel	4
JSt 435	Jewish and Israeli Dance History	4

Area J: Judaism

JSt 319U/Hst 319U	Rabbinic Culture in the Roman World	4
JSt 324U	Historical Introduction to the Hebrew Bible/Old Testament	4
JSt 325U	Retelling the Bible	4
JSt 381U/Hst 381U	Kabbalah: The Jewish Mystical Tradition	4

Area L: Literature, Culture, and the Arts

JSt 319U/Hst 319U	Rabbinic Culture in the Roman World	4
JSt 325U	Retelling the Bible	4
Eng 330U	Jewish and Israeli Literature	4
JSt 333U	Israeli Culture and Society	4
JSt 435	Jewish and Israeli Dance History	4

Area M: Modern Jewish History

JSt 318U/Hst 318U	Jewish History from the Medieval Period to the Present	4
JSt 335U	Sex, Love, and Gender in Israel	4
JSt 379U/Hst 379U	History of Zionism	4
JSt 380U/Hst 380U	The Holocaust	4
JSt 388U	History of Modern Israel	4

JSt 399 Topics in Jewish Studies (1-4) Area: varies depending on topic.

JSt 401 Research Project (1-8) Area: varies depending on topic.

JSt 407 Seminar in Jewish Studies (1-4) Area: varies depending on topic.

JSt 409 Practicum (1-8) Area: varies depending on topic.

JSt 410 Selected Topics (1-4) Area: varies depending on topic.

Approved courses on the 400 level or higher (Eng 410, JSt 430, Hst 405, 407, 461, 561, etc.): varies depending on topic.

Courses:

JSt 201	Introduction to Judaism	4
JSt 317U/Hst 317U	Jewish History from Antiquity to the Medieval Period	4
JSt 318U/Hst 318U	Jewish History from the Medieval Period to the Present	4
Heb 301	Third-Year Modern Hebrew Term 1	4
Heb 302	Third-Year Modern Hebrew Term 2	4
Heb 303	Third-Year Modern Hebrew Term 3	4
JSt 407	Seminar	4
	4 credits of JSt 402, JSt 405 or JSt 409	4
	24 credits of upper-division JSt courses or instructor approved equivalents	24

4 credits of approved upper
division subject area credits
outside JSt program 4

Total Credit Hours: 60

JUDAIC STUDIES MINOR

Portland State University offers a conceptually structured yet flexible undergraduate minor in Judaic Studies. Students completing the minor will have gained exposure to the study of Jewish history and culture in a variety of national and international contexts. Students completing the minor are required to take Introduction to Judaism and at least one term of the two-term sequence in Jewish history, as well as coursework dealing with Jews and Judaism in Europe, Israel, and the United States, the major historical centers of Jewish life in the modern period. Students are also required to take coursework focusing on Jewish history or culture prior to the modern period (defined as 1700 and earlier). Through exploration of Jewish culture, Jewish contributions to other cultures, and the impact of modernity on national, ethnic, and religious identity, students will have broadened and deepened their education, better preparing them for our interconnected world of diverse cultures and religions.

Students undertaking the minor in Judaic Studies at PSU may be eligible for the Sara Glasgow Cogan Memorial Scholarship and the Abigail Jacobs-Kaufman Scholarship.

REQUIREMENTS

To earn a minor in Judaic studies a student must complete 28 credits, at least 16 credits of which must be upper-division courses, and at least 12 credits of which must be taken in residence at PSU. These 28 credits must include the following:

Courses

JSt 201	Introduction to Judaism	4
	Area electives (see below)	12
	Advisor-approved electives (see below)	12

Subtotal: 28

Area electives must include at least 4 credits of coursework from the list of electives above (see requirements for the major) focusing on each of the following categories:

Jewish history/culture in the United States	4
Jewish history/culture in the State of Israel	4
Jewish history/culture prior to 1700	4

Subtotal: 12

Approved Electives

Adviser-approved electives may include up to 4 credits of coursework not on the list of approved electives, but which has a conceptual, topical, or methodological relevance to the discipline of Judaic studies. Up to 8 credits of Heb 203 or higher may be applied.

For information about special by-arrangement courses, and for-credit academic internship opportunities with local cultural and community institutions such as the Oregon Jewish Museum, contact the program adviser.

Fariborz Maseeh Department of Mathematics + Statistics

210 East Hall (EH)
503-725-3621
www.pdx.edu/math/

- B.A., B.S. in Mathematics
- Minor in Mathematics
- Minor in Mathematics for Middle School Teachers
- Mathematics for Teaching License Requirements
- Graduate Certificate for Middle School Mathematics Teachers
- Graduate Certificate in Applied Statistics
- M.A., M.S. in Mathematics
- M.S. in Statistics
- M.S. in Mathematics for Teachers
- Ph.D. in Mathematical Sciences
- Ph.D. in Mathematics Education

Undergraduate programs

The mathematical sciences have long provided the proper language of the physical sciences and engineering, and they are playing an increasingly important role in areas as diverse as computer science, the social sciences, business administration and economics, and the biological and medical sciences. Many are drawn to the study of mathematics and statistics precisely because of this broad applicability. Others are attracted by the rigorous training these disciplines provide in abstract reasoning, and the many surprising results and elegant arguments they encounter. The department offers a wide variety of courses in mathematics and statistics to meet the needs of a student body having very diverse interests. Anyone who would like to learn more about the department's faculty, programs, courses, activities and other services is encouraged to explore the department website, or visit the department office.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for undergraduate degrees in Mathematics and Statistics, go to <http://www.pdx.edu/math/undergraduate-advising>.

ADMISSION REQUIREMENTS

In order to help students plan their programs, the Fariborz Maseeh Department of Mathematics and Statistics provides placement assistance and the opportunity to meet with an adviser. All students are urged to avail themselves of these services, especially those students who are enrolling in their first mathematics or statistics course.

Students interested in majoring in mathematics are urged to meet with a department adviser. Students who have decided to major in mathematics should inform both the department and the registrar's office of that decision. Mathematics majors are encouraged to participate in the activities of the department and to meet on a regular and continuing basis with a departmental adviser.

MATHEMATICS B.A./B.S.

The degree program requires a basic core of courses, but it also has the flexibility that allows students to pursue special areas of interest in mathematics. The program is designed to provide a foundation for more advanced work and/or a basis for employment in government, industry, or secondary education. A joint degree in mathematics with computer science, business administration, economics, physics, or some other area may give a student additional opportunities for employment upon graduation.

The department attempts to offer as many courses as possible after 4 p.m. on a rotating schedule so that a degree may be pursued by either day or evening enrollment.

REQUIREMENTS

In addition to meeting the general University degree requirements, the major in mathematics must complete the following requirements:

Courses

Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 253	Calculus III	4
Mth 261	Introduction to Linear Algebra	4
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Mth 271	Mathematical Computing or	4

CS 161	Introduction to Programming and Problem-Solving	4
Mth 311	Introduction to Mathematical Analysis I	4
Mth 312	Introduction to Mathematical Analysis II	4
Mth 344	Introduction to Group Theory and Applications	4

One of the following: (3-4 credits)

Mth 338	Modern College Geometry	4
Mth 345	Introduction to Ring and Field Theory	4
Mth 346	Number Theory	4
Mth 444	Advanced Linear/Multilinear Algebra I	3

Additional Requirements chosen from Approved List of courses-sequences

Mth/Stat (one)	Approved two-term 400-level Mth or Stat sequence	6
Mth/Stat (two)	Approved 400-level Mth or Stat courses	6-7
Mth/Stat (two)	Approved 300- or 400-level Mth or Stat courses	6-8

Approved electives are:

Mth 300	Introduction to Mathematical Reasoning	4
Mth 313	Advanced Multivariate Calculus	4
Mth 322	Applied Partial Differential Equations	4
Mth 324	Vector Analysis	4
Mth 338	Modern College Geometry	4
Mth 343	Applied Linear Algebra	4
Mth 345	Introduction to Ring and Field Theory	4
Mth 346	Number Theory	4
Mth 356	Discrete Mathematics	4
Mth 411	Introduction to Real Analysis I	3
Mth 412	Introduction to Real Analysis II	3
Mth 413	Introduction to Real Analysis III	3
Mth 420	Introduction to Complexity Theory	3
Mth 421	Theory of Ordinary Differential Equations I	3
Mth 422	Theory of Ordinary Differential Equations II	3
Mth 423	Theory of Ordinary Differential Equations III	3
Mth 424	Elementary Differential Geometry I	3
Mth 425	Elementary Differential Geometry II	3
Mth 427	Partial Differential Equations I	3
Mth 428	Partial Differential Equations II	3

Mth 430	Topics in Mathematical Modeling	3	Stat 451	Applied Statistics for Engineers and Scientists I	4
Mth 431	Topics in Geometry I	3	Stat 452	Applied Statistics for Engineers and Scientists II	3
Mth 432	Topics in Geometry II	3	Stat 461	Introduction to Mathematical Statistics I	3
Mth 433	Topics in Geometry III	3	Stat 462	Introduction to Mathematical Statistics II	3
Mth 434	Set Theory and Topology I	3	Stat 463	Introduction to Mathematical Statistics III	3
Mth 435	Set Theory and Topology II	3	Stat 464	Applied Regression Analysis	3
Mth 436	Set Theory and Topology III	3	Stat 465	Experimental Design: Theory and Methods I	3
Mth 440	Boolean Algebra	4	Stat 466	Experimental Design: Theory and Methods II	3
Mth 441	Introduction to Abstract Algebra I	3	Stat 467	Applied Probability I	3
Mth 442	Introduction to Abstract Algebra II	3	Stat 468	Applied Probability II	3
Mth 443	Introduction to Abstract Algebra III	3	Check with the department for the list of approved Mth or Stat sequences and for additional courses, including omnibus-numbered courses, which may be approved as electives. Subtotal: 61-65		
Mth 444	Advanced Linear/Multilinear Algebra I	3			
Mth 445	Advanced Linear/Multilinear Algebra II	3	All courses used to satisfy the departmental major requirements, whether taken in the department or elsewhere, must be graded C-, P, or above, but no more than 4 courses graded P will count toward these requirements. Transfer students majoring in mathematics are required to take a minimum of 15 credits of PSU upper-division mathematics or statistics courses in residence.		
Mth 449	Topics in Advanced Number Theory	3			
Mth 451	Numerical Calculus I	3	MATHEMATICS B.A./B.S. OPTIONS		
Mth 452	Numerical Calculus II	3			
Mth 453	Numerical Calculus III	3	In addition to the specific required courses (p. 258), the following options are intended to help the student plan a program of study with a specific goal or career in mind.		
Mth 456	Topics in Combinatorics	3			
Mth 457	The Mathematical Theory of Games I	3	OPTION I—APPLIED MATHEMATICS		
Mth 458	The Mathematical Theory of Games II	3	Recommended electives:		
Mth 461	Graph Theory I	3	Mth 322	Applied Partial Differential Equations	4
Mth 462	Graph Theory II	3	Mth 421	Theory of Ordinary Differential Equations I	3
Mth 470	Complex Analysis and Boundary Value Problems I	3	Mth 422	Theory of Ordinary Differential Equations II	3
Mth 471	Complex Analysis and Boundary Value Problems II	3	Mth 424	Elementary Differential Geometry I	3
Mth 472	Complex Analysis and Boundary Value Problems III	3	Mth 425	Elementary Differential Geometry II	3
Mth 477	Mathematical Control Theory I	3	Mth 427	Partial Differential Equations I	3
Mth 478	Mathematical Control Theory II	3	Mth 428	Partial Differential Equations II	3
Mth 481	Topics in Probability for Mathematics Teachers	3	Mth 430	Topics in Mathematical Modeling	3
Mth 482	Topics in Statistics for Mathematics Teachers	3	Mth 451	Numerical Calculus I	3
Mth 483	Topics in Geometry for Mathematics Teachers	3	Mth 452	Numerical Calculus II	3
Mth 484	Topics in Algebra for Mathematics Teachers	3			
Mth 485	Topics in Analysis for Mathematics Teachers	3			
Mth 486	Topics in The History of Mathematics	3			
Mth 487	Topics in Discrete Mathematics for Mathematics Teachers	3			
Mth 488	Topics in Computing for Mathematics Teachers	3			

Mth 457	The Mathematical Theory of Games I	3
Mth 458	The Mathematical Theory of Games II	3
Mth 470	Complex Analysis and Boundary Value Problems I	3
Mth 477	Mathematical Control Theory I	3
Mth 478	Mathematical Control Theory II	3

OPTION II—GRADUATE SCHOOL PREPARATION

Recommended electives:

Mth 411	Introduction to Real Analysis I	3
Mth 412	Introduction to Real Analysis II	3
Mth 413	Introduction to Real Analysis III	3
Mth 434	Set Theory and Topology I	3
Mth 435	Set Theory and Topology II	3
Mth 436	Set Theory and Topology III	3
Mth 441	Introduction to Abstract Algebra I	3
Mth 442	Introduction to Abstract Algebra II	3
Mth 443	Introduction to Abstract Algebra III	3

OPTION III—STATISTICS

Recommended electives:

Stat 461	Introduction to Mathematical Statistics I	3
Stat 462	Introduction to Mathematical Statistics II	3
Stat 463	Introduction to Mathematical Statistics III	3
Stat 464	Applied Regression Analysis	3
Stat 465	Experimental Design: Theory and Methods I	3
Stat 466	Experimental Design: Theory and Methods II	3
Stat 467	Applied Probability I	3
Stat 468	Applied Probability II	3

OPTION IV—HIGH SCHOOL TEACHING

Recommended electives:

Mth 338	Modern College Geometry	4
Mth 346	Number Theory	4
Mth 356	Discrete Mathematics	4
Mth 486	Topics in The History of Mathematics	3
Mth 488	Topics in Computing for Mathematics Teachers	3
Stat 461	Introduction to Mathematical Statistics I	3
Stat 462	Introduction to Mathematical Statistics II	3

See also the Mathematics Licensure section.

OPTION V—ACTUARIAL SCIENCE

Recommended electives:

CS 161	Introduction to Programming and Problem-Solving	4
Mth 451	Numerical Calculus I	3
Mth 452	Numerical Calculus II	3
Stat 461	Introduction to Mathematical Statistics I	3
Stat 462	Introduction to Mathematical Statistics II	3
Stat 463	Introduction to Mathematical Statistics III	3
Stat 464	Applied Regression Analysis	3
Stat 465	Experimental Design: Theory and Methods I	3
Stat 466	Experimental Design: Theory and Methods II	3
Stat 467	Applied Probability I	3
Stat 468	Applied Probability II	3

MATHEMATICS AND STATISTICS HONORS TRACK

The Honors Track in Mathematics and Statistics offers an opportunity for outstanding mathematics majors to engage in independent research under the supervision of a faculty member. Students who successfully complete the honors track will receive notice of this distinction on their academic transcripts and on their diplomas.

The requirements for admission to the Mathematics and Statistics Honors Track are:

1. Completion of 12 credits in the Fariborz Maseeh Department of Mathematics and Statistics, 4 of which should be at a 300-level or above;
2. Have a minimum cumulative GPA of 3.5 points and a minimum GPA of 3.67 points in the Mathematics major;
3. Complete application form submitted to the Fariborz Maseeh Department of Mathematics and Statistics no later than three quarters before graduation.

REQUIREMENTS

The Mathematics and Statistics Honors Track requirements for graduation are:

Courses

Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 253	Calculus III	4
Mth 254	Calculus IV	4
Mth 261	Introduction to Linear Algebra	4

Mth 256	Applied Ordinary Differential Equations	4
Mth 311	Introduction to Mathematical Analysis I	4
Mth 312	Introduction to Mathematical Analysis II	4
Mth 344	Introduction to Group Theory and Applications	4
Mth 401	Honors Project	3
One of the following: (4 credits)		
Mth 271	Mathematical Computing	4
CS 161	Introduction to Programming and Problem-Solving	4

Additional Requirements chosen from Approved List of courses-sequences

Mth/Stat	Approved 400-level sequences	12
(two)		
Mth/Stat	Approved 300- or 400-level elective course	3-4
(one)		

The chair of the Fariborz Maseeh Department of Mathematics and Statistics, in consultation with faculty, will assign the students a faculty adviser to guide their research. This research topic will be at a 400-level or above and will not have been discussed or presented in courses the students have taken. The written project should be approved by the chair of the department. Concluding the work, the students will give an oral presentation of the Honors project to faculty and students.

Students must have a cumulative GPA no lower than 3.5 points and a GPA no lower than 3.67 points in the major.

No mathematics or statistics courses taken under the undifferentiated grading option are acceptable towards fulfilling the requirements for the Mathematics and Statistics Honors Track.

The chair and an undergraduate adviser will monitor the progress of the students accepted in the Mathematics and Statistics Honors Track. If this progress and/or performance are found to be unsatisfactory and if corrective actions cannot be identified, the students will be dropped from the Mathematics and Statistics Honors Track (the students may opt out to pursue a regular mathematics major or to select another major).

MATHEMATICS MINOR

REQUIREMENTS

A student must complete the following program (3 upper-division courses must be taken in residence at PSU):

Courses

Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 253	Calculus III	4

Mth 261	Introduction to Linear Algebra	4
Mth 254	Calculus IV	4
Mth 311	Introduction to Mathematical Analysis I	4
	or	
Mth 344	Introduction to Group Theory and Applications	4

Additional Requirements chosen from Approved List of courses-sequences

Mth/Stat	Approved elective courses	9-12
(three)		

Approved electives for the Minor in Mathematics are:

Mth 256	Applied Ordinary Differential Equations	4
Mth 311	Introduction to Mathematical Analysis I	4
Mth 312	Introduction to Mathematical Analysis II	4
Mth 344	Introduction to Group Theory and Applications	4
Stat 351	Probability and Statistics for Electrical and Computer Engineering	4
Stat 353	Exploratory Data Analysis and Statistics for Mechanical and Materials Engineering	4

or any course approved as an elective for major credit.
Subtotal: 33-36

Only grades of C-, P, or above count toward satisfying the department minor requirements. No more than three courses with a grade of P may be counted toward these requirements.

MATHEMATICS FOR MIDDLE SCHOOL TEACHERS MINOR

REQUIREMENTS

This mathematics minor is intended for those who plan to enter a Graduate Teacher Education Program and be licensed in middle school mathematics (grades 5-9). A student must complete the following program (12 credits must be upper-division; 9 of these 12 upper-division credits must be taken in residence at PSU):

Courses

Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4
Mth 213	Foundations Of Elementary Mathematics III	4

Mth 491	Experimental Probability and Statistics for Middle School Teachers	4
Mth 493	Geometry for Middle School Teachers	4
Mth 494	Arithmetic and Algebraic Structures for Middle School Teachers	4
Mth 495	Historical Topics in Mathematics for Middle School Teachers	4
Mth 496	Concepts of Calculus for Middle School Teachers	4
Mth 497	Mathematics in the Middle School Classroom	4

Only grades of C-, P, or above count toward satisfying the department minor requirements. No more than three courses with a grade of P may be counted toward these requirements.

MATHEMATICS FOR TEACHING LICENSE REQUIREMENTS

To receive a teaching license from PSU, after completing a baccalaureate degree a student must complete the Graduate Teacher Education Program (GTEP) (p. 139) through the Graduate School of Education.

Below is a list of the minimal mathematics/statistics coursework required for individuals needing a Departmental Recommendation to enter the Graduate Teacher Education Program (GTEP) in Advanced Mathematics, Foundational Mathematics, and Elementary Education. GTEP is a program in the Graduate School of Education, but these mathematics/statistics prerequisites are taken in the Fariborz Maseeh Department of Mathematics and Statistics. A bachelor's degree is also required by GTEP, although not necessarily in mathematics. One may apply for the GTEP program before completing all coursework, but coursework must be completed before entrance to GTEP.

For the GTEP Secondary Content Area Advisor for both Foundational and Advanced Mathematics, please contact: Dr. Steve Boyce, sboyce@pdx.edu, 503-725-4833.

SECONDARY EDUCATION PROGRAM REQUIREMENTS FOR THE ADVANCED MATHEMATICS

Students planning to earn a secondary teaching license in mathematics must obtain a recommendation for admission to the GTEP from the Fariborz Maseeh Department of Mathematics and Statistics. The student's program should include most of the courses required for the major and those listed in Option IV-High School Teaching.

PROGRAM REQUIREMENTS FOR THE FOUNDATIONAL MATHEMATICS (TEACHING GRADES 5-9)

The program must include the following courses or approved substitutions required by the Fariborz Maseeh Department of Mathematics and Statistics (9 courses. The 400-level courses may be taken at the 500-level for graduate credit.)

These 36 credits can lead to the Minor in Mathematics for Middle School Teachers if taken at the 400 level, or to the Graduate Certificate in Mathematics for Middle School Teachers if taken at the 500 level. Contact Eva Thanheiser (evat@pdx.edu) for more information about either of those programs.

Courses

Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4
Mth 213	Foundations Of Elementary Mathematics III	4
Mth 491	Experimental Probability and Statistics for Middle School Teachers	4
Mth 493	Geometry for Middle School Teachers	4
Mth 494	Arithmetic and Algebraic Structures for Middle School Teachers	4
Mth 495	Historical Topics in Mathematics for Middle School Teachers	4
Mth 496	Concepts of Calculus for Middle School Teachers	4
Mth 497	Mathematics in the Middle School Classroom	4

PROGRAM REQUIREMENTS FOR ELEMENTARY EDUCATION

Before admission to GTEP, students planning to earn an elementary teaching license must complete:

Courses

Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4
Mth 213	Foundations Of Elementary Mathematics III	4

Graduate programs

The Fariborz Maseeh Department of Mathematics and Statistics offers work leading to the degrees of Master of Arts, Master of Science, the Ph.D. in Mathematical Sciences and the Ph.D. in Mathematics Education as well

as the Graduate Certificate for Middle School Mathematics Teachers and the Graduate Certificate in Applied Statistics.

MATHEMATICS M.A./M.S.

The Master of Arts/Master of Science in Mathematics program is designed for the student who wishes to prepare for community college teaching, industrial work in mathematics, or further advanced work toward a Ph.D. in mathematics.

ADMISSION:

Program prerequisites:

Transcript(s) must show satisfactory completion of at least the following undergraduate courses: Linear Algebra, Abstract Algebra/Group Theory, Introductory Analysis/Advanced Calculus, and Differential Equations (these are equivalent to the following PSU courses: Mth 261, Mth 344, Mth 311 and Mth 256).

In addition to program prerequisites, applicants must meet the university's minimum admission requirements including English language proficiency.

This program currently offers rolling admissions. See instructions on how to apply:

<http://www.pdx.edu/math/how-to-apply>

DEGREE REQUIREMENTS

Candidates must complete an approved 45-credit program that includes at least 30 credits in mathematics or statistics. These 30 credits must include approved courses distributed as follows: two 6-credit sequences at the 600 level, 6 additional credits at the 600 level, and the 3-credit Mth 501 Mathematical Literature and Problems. In addition, the student must pass two written Master's examinations. Students interested in pursuing the MA degree must also show proficiency in a second language.

A student must have a minimum 3.00 GPA on the courses applied to the program of study, as well as a minimum 3.00 GPA in all graduate-level courses taken at PSU. Although grades of C+, C, and C- are below the graduate standard, they may be counted as credit toward a master's degree with the specific written approval of the department if taken at PSU after the term of formal admission to the graduate program.

Students are responsible for knowing University-level graduate policies and procedures for obtaining the degree. These policies and procedures are in Graduate Studies section of the PSU Bulletin. Several of the most frequently asked about University-level graduate policies and procedures can also be found on the Office of Graduate Studies website.

Approved courses for the degree:

Mth 511	Introduction to Real Analysis I	3
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Mth 512	Introduction to Real Analysis II	3
Mth 513	Introduction to Real Analysis III	3
Mth 520	Introduction to Complexity Theory	3
Mth 521	Theory of Ordinary Differential Equations I	3
Mth 522	Theory of Ordinary Differential Equations II	3
Mth 523	Theory of Ordinary Differential Equations III	3
Mth 524	Elementary Differential Geometry I	3
Mth 525	Elementary Differential Geometry II	3
Mth 527	Partial Differential Equations I	3
Mth 528	Partial Differential Equations II	3
Mth 530	Topics in Mathematical Modeling	3
Mth 531	Topics in Geometry I	3
Mth 532	Topics in Geometry II	3
Mth 533	Topics in Geometry III	3
Mth 534	Set Theory and Topology I	3
Mth 535	Set Theory and Topology II	3
Mth 536	Set Theory and Topology III	3
Mth 540	Boolean Algebra	4
Mth 541	Introduction to Abstract Algebra I	3
Mth 542	Introduction to Abstract Algebra II	3
Mth 543	Introduction to Abstract Algebra III	3
Mth 544	Advanced Linear/Multilinear Algebra I	3
Mth 545	Advanced Linear/Multilinear Algebra II	3
Mth 549	Topics in Advanced Number Theory	3
Mth 551	Numerical Calculus I	3
Mth 552	Numerical Calculus II	3
Mth 553	Numerical Calculus III	3
Mth 556	Topics in Combinatorics	3
Mth 557	The Mathematical Theory of Games I	3
Mth 558	The Mathematical Theory of Games II	3
Mth 561	Graph Theory I	3
Mth 562	Graph Theory II	3
Mth 570	Complex Analysis and Boundary Value Problems I	3
Mth 571	Complex Analysis and Boundary Value Problems II	3
Mth 572	Complex Analysis and Boundary Value Problems III	3
Mth 577	Mathematical Control Theory I	3
Mth 578	Mathematical Control Theory II	3

Mth 580	Systems Analysis: Calculus of Variations	3
Mth 611	Theory of Functions of a Real Variable I	3
Mth 612	Theory of Functions of a Real Variable II	3
Mth 613	Theory of Functions of a Real Variable III	3
Mth 614	Modern Analysis I	3
Mth 615	Modern Analysis II	3
Mth 616	Modern Analysis III	3
Mth 617	Functional Analysis I	3
Mth 618	Functional Analysis II	3
Mth 619	Functional Analysis III	3
Mth 621	Advanced Differential Equations I	3
Mth 622	Advanced Differential Equations II	3
Mth 623	Advanced Differential Equations III	3
Mth 624	Advanced Differential Geometry I	3
Mth 625	Advanced Differential Geometry II	3
Mth 626	Advanced Differential Geometry III	3
Mth 634	Algebraic Topology I	3
Mth 635	Algebraic Topology II	3
Mth 636	Algebraic Topology III	3
Mth 637	Geometric Topology I	3
Mth 638	Geometric Topology II	3
Mth 639	Geometric Topology III	3
Mth 641	Modern Algebra I	3
Mth 642	Modern Algebra II	3
Mth 643	Modern Algebra III	3
Mth 651	Advanced Numerical Analysis I	3
Mth 652	Advanced Numerical Analysis II	3
Mth 653	Advanced Numerical Analysis III	3
Mth 661	Algebraic Graph Theory I	3
Mth 662	Algebraic Graph Theory II	3
Mth 663	Algebraic Graph Theory III	3
Mth 667	Stochastic Processes and Probability Theory I	3
Mth 668	Stochastic Processes and Probability Theory II	3
Stat 561	Mathematical Statistics I	3
Stat 562	Mathematical Statistics II	3
Stat 564	Applied Regression Analysis	3
Stat 565	Experimental Design: Theory and Methods I	3
Stat 566	Experimental Design: Theory and Methods II	3
Stat 567	Applied Probability I	3
Stat 661	Advanced Mathematical Statistics I	3

Stat 662	Advanced Mathematical Statistics II	3
Stat 663	Advanced Mathematical Statistics III	3
Stat 664	Theory of Linear Models I	3
Stat 665	Theory of Linear Models II	3
Stat 666	Theory of Linear Models III	3

Check with the program adviser for additional courses, including omnibus-numbered courses, which also may be approved for MA/MS programs. "Approved" means that it is approved toward fulfilling the 30 mathematics/statistics credit hours for the MA/MS Math program.

Approved electives for the degree:

Mth 581	Topics in Probability for Mathematics Teachers	2-3
Mth 582	Topics in Statistics for Mathematics Teachers	2-3
Mth 583	Topics in Geometry for Mathematics Teachers	2-3
Mth 585	Topics in Analysis for Mathematics Teachers	2-3
Mth 586	Topics in The History of Mathematics	2-3
Mth 587	Topics in Discrete Mathematics for Mathematics Teachers	2-3
Mth 588	Topics in Computing for Mathematics Teachers	1-3

"Approved as elective" means that it is approved inside the 45 total credit hours but not inside the 30 mathematics/statistics credit hours. Check with the program adviser for additional approved electives.

MA/MS EXAMINATIONS

Students must pass two written examinations, one of which must be in either Algebra or Analysis. Other subject areas include: Discrete Math, Geometry, Mathematical Statistics, Numerical Methods, Ordinary Differential Equations, Partial Differential Equations and Set Theory/Topology. Exams are offered twice a year, during the week prior to the start of fall term and during the first week of spring term. Students may take a given area examination at most two times. The MA/MS Examination Policy as well as syllabi for the exams can be emailed upon request. Students may also request copies of the last three years of master's examinations. Please note that you must be registered for and complete at least one graduate credit during the term(s) in which you take your exams.

MTH 501 MATHEMATICAL LITERATURE AND PROBLEMS

In this required course, a student works under the supervision of a faculty member in an area of mathematics in which the student has acquired the background needed to read current mathematical literature, prepare a research

paper, and present this research in a colloquium. Requirements for the course are contained in Guidelines and Deadlines for Literature and Problems Seminar which is also available in the department office. Please note that you must be registered for at least one graduate credit during the term in which you plan to present your 501 research.

PLANNING AN MA/MS MATHEMATICS DEGREE PROGRAM

The department offers courses in pure and applied mathematics and in statistics. Students may choose an emphasis in one or more of these areas. The department tries to project its future 600-level offerings. These projections enable students to plan programs that include any necessary 500-level prerequisites. Students also need to plan programs that will prepare them to pass two MA/MS examinations, at least one of which is in Algebra or Analysis. New students are urged to meet with the MA/MS Coordinator regarding degree requirements and for help with program planning.

STATISTICS M.S.

The Master of Science in Statistics program is designed for students who wish to pursue careers as practicing statisticians in industry, government, or academia. It is also designed to prepare students for community college teaching or entry into a Ph.D. in Statistics degree program. The degree may be valuable also for people working in other fields who need mastery of a broad range of statistical methods.

ADMISSION

Program prerequisites

Transcript must show successful completion of at least the following undergraduate courses: Advanced Statistical Methods (Stat 452 or higher), Introduction to Mathematical Analysis/Advanced Calculus (Mth 311), Introduction to Linear Algebra (Mth 261), and Applied Differential Equations (Mth 256).

In addition to program prerequisites, applicants must meet the university's minimum admission requirements including English language proficiency.

This program admits once per year for fall term only. See instructions on how to apply: <http://www.pdx.edu/math/how-to-apply>

DEGREE REQUIREMENTS

A student must have a minimum 3.00 GPA on the courses applied to the program of study, as well as a minimum 3.00 GPA in all graduate-level courses taken at PSU. Although grades of C+, C, and C- are below the graduate standard, they may be counted as credit toward a master's degree with the specific written approval of the department if

taken at PSU after the term of formal admission to the graduate program.

Students are responsible for knowing University-level graduate policies and procedures for obtaining the degree. These policies and procedures are in Graduate Studies section of the PSU Bulletin. Several of the most frequently asked about University-level graduate policies and procedures can also be found on the Office of Graduate Studies website.

CORE REQUIREMENTS (33 CREDITS)

Candidates must complete an approved 45-credit program, which includes at least 33 core credits in courses with the Stat prefix. These 33 credits must include courses distributed as follows:

Two 9-credit sequences:

Stat 561	Mathematical Statistics I	3
Stat 562	Mathematical Statistics II	3
Stat 563	Mathematical Statistics III	3
	And	
Stat 564	Applied Regression Analysis	3
Stat 565	Experimental Design: Theory and Methods I	3
Stat 566	Experimental Design: Theory and Methods II	3

One 9-credit sequence chosen from

Stat 661	Advanced Mathematical Statistics I	3
Stat 662	Advanced Mathematical Statistics II	3
Stat 663	Advanced Mathematical Statistics III	3
	or	
Stat 664	Theory of Linear Models I	3
Stat 665	Theory of Linear Models II	3
Stat 666	Theory of Linear Models III	3
	or	
Mth 667	Stochastic Processes and Probability Theory I	3
Mth 668	Stochastic Processes and Probability Theory II	3
Mth 669	Stochastic Processes and Probability Theory III	3
	or	
Stat 671	Statistical Learning I	3
Stat 672	Statistical Learning II	3
Stat 673	Statistical Learning III	3

Topics in Statistical Consulting (3 credits)

Stat 570	Statistical Consulting	1-3
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Stat 570 is currently offered during Spring term only.

STAT 501 Statistical literature and problems (3 credits)

Stat 501	Research	1-6
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ELECTIVES (12 CREDITS)

A total of 12 elective credit hours must be completed. The following list of courses is pre-approved for elective credit.

Stat 571	Applied Multivariate Statistical Analysis	3
Stat 572	Bayesian Statistics	3
Stat 573	Computer Intensive Methods in Statistics	3
Stat 576	Sampling Theory and Methods	3
Stat 577	Categorical Data Analysis	4
Stat 578	Survival Analysis	3
Stat 580	Nonparametric Methods	3
Stat 661	Advanced Mathematical Statistics I	3
Stat 662	Advanced Mathematical Statistics II	3
Stat 663	Advanced Mathematical Statistics III	3
Stat 664	Theory of Linear Models I	3
Stat 665	Theory of Linear Models II	3
Stat 666	Theory of Linear Models III	3
Stat 567	Applied Probability I	3
Stat 568	Applied Probability II	3
Mth 667	Stochastic Processes and Probability Theory I	3
Mth 668	Stochastic Processes and Probability Theory II	3
Mth 669	Stochastic Processes and Probability Theory III	3
Stat 671	Statistical Learning I	3
Stat 672	Statistical Learning II	3
Stat 673	Statistical Learning III	3
CS 545	Machine Learning	3
Ec 572	Time Series Analysis and Forecasts	4
USP 655	Advanced Data Analysis: Structural Equation Modeling	3

Other statistically oriented courses outside the Department and other mathematics courses may be substituted, but must be approved as electives by the statistics graduate program advisor. "Approved as elective" means that it is approved inside the 12 elective credit hours

but not inside the 33 statistical credit hour core requirements. A course or sequence cannot be counted both within the 33-hour core and as an elective course or sequence.

MS EXAMINATIONS

Students must pass two examinations, one in Mathematical Statistics which covers Stat 561, Stat 562, Stat 563 and one in Applied Statistics which includes the core topics covered in Stat 564, Stat 565, and Stat 566. Examinations

are scheduled twice per year, the week before the Fall term and during the first week of Spring term. It is possible for students to sign up for examinations up to 10 days before the exam is scheduled. Students may cancel signups for MS exams up to 48 hours before an exam is given.

Students may take any examination at most two times. Students must be registered for and complete at least one graduate credit during the term in which they take an exam. An information sheet detailing the MS examination policy as well as syllabi for the two examinations may be emailed upon request. The last three years of previous MS examinations are also available upon request. For clarity, below is the grading policy for the MS Exam in Applied Statistics.

Grading Policy for the MS Exam in Applied Statistics

The Applied Statistics Exam is comprised of two components:

1. Applied regression analysis
2. Design of experiments and ANOVA

Both components consist of a written exam portion and a separate, in-laboratory, statistical computing applications portion. The Applied Statistics Exam may be repeated once; that is, a maximum of two tries is permitted.

A Pass (P) or Fail (F) is given on each component.

- Two P's equal a PASS on the exam.
- One P equal a CONDITIONAL PASS on the exam. The Examination Committee will inform the student of the requirements for removal of the Conditional.
- Two F's equal a FAIL on the exam. In this case the entire exam must be retaken.

STAT 501 STATISTICAL LITERATURE AND PROBLEMS

In this required course for the MS in Statistics, a student works under the supervision of a faculty member in an area of probability and statistics in which the student has acquired the background needed to read current probability and statistical literature, prepare a research paper, and present this research in a colloquium. Requirements for the course are listed separately on the handout: Guidelines and Deadlines for Stat 501 Statistical Literature and Problems.

PLANNING AN MS DEGREE PROGRAM

The department projects its future 600-level offerings. These projections enable students to plan programs that include any necessary 500-level prerequisites. Students also need to plan a program that will prepare them to pass the two MS examinations. Students entering the program with core courses Stat 561, Stat 562, Stat 563 and Stat 564, Stat 565, Stat 566 successfully completed and considering future pursuit of the Ph.D. are encouraged to take Mth 511,

Mth 512 and in addition to the required 600 level sequence, at least one additional sequence from among Stat 661, Stat 662, Stat 663, Stat 664, Stat 665, Stat 666, and Mth 667, Mth 668, Mth 669. All students are urged to meet with the graduate program advisor regarding degree requirements and for help with program planning.

MATHEMATICS FOR TEACHERS M.S.

Candidates must complete an approved program of 45 graduate credits and complete an approved mathematics curriculum project.

The M.S. in Mathematics for Teachers is designed for individuals interested in strengthening their understanding of mathematics to enrich the teaching of mathematics. The program prepares teachers in subjects such as geometry, algebra, analysis/calculus, history of mathematics, probability, statistics, discrete mathematics, and use of technology in the classroom. The program is intended for individuals with a mathematics degree or a strong background in mathematics.

The M.S. in Mathematics for Teachers program offers advanced training and specialized courses for secondary school teachers of mathematics.

ADMISSION

The Masters of Science in Mathematics for Teachers (MS-MTCH) is designed for people interested in strengthening their understanding of mathematics to enrich the teaching of mathematics. The program prepares teachers in subjects such as geometry, algebra, analysis/calculus, probability, statistics, discrete mathematics, and the use of calculators and computers in the classroom.

The MS-MTCH does not lead to a teaching license. If you are interested in teaching secondary mathematics, please contact the School of Education, GTEP program.

Program prerequisites:

The program is intended for individuals with a mathematics degree or a strong background in mathematics. In order to be admitted to the MS-MTCH program, the applicant's transcript must show successful completion of undergraduate courses in at least the following subjects: linear algebra, introductory analysis/advanced calculus, college geometry, and abstract algebra/group theory. (PSU's equivalent courses are: MTH 261, MTH 311, MTH 338, and MTH 344.)

In addition to program prerequisites, applicants must meet the university's minimum admission requirements including English language proficiency.

This program currently offers rolling admissions. See instructions on how to apply:
<http://www.pdx.edu/math/how-to-apply>

DEGREE REQUIREMENTS:

An MS-MTCH candidate must complete an approved program of 45 graduate credits which includes a mathematics curriculum project.

Required coursework

Probability/Statistics (6 credits)

Mth 581	Topics in Probability for Mathematics Teachers	2-3
Mth 582	Topics in Statistics for Mathematics Teachers	2-3

Geometry (3 credits)

Mth 583	Topics in Geometry for Mathematics Teachers	2-3
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Algebra (3 credits)

Mth 584	Topics in Algebra for Mathematics Teachers	2-3
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Analysis (3 credits)

Mth 585	Topics in Analysis for Mathematics Teachers	2-3
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History/Foundations of Math (3 credits)

Mth 586	Topics in The History of Mathematics	2-3
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Discrete Math (3 credits)

Mth 587	Topics in Discrete Mathematics for Mathematics Teachers	2-3
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Technology (3 credits)

Mth 588	Topics in Computing for Mathematics Teachers	1-3
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Math Education (3 credits)

Approved graduate mathematics education course

Curriculum Project (3 credits)

Mth 501	Curriculum Research, Mathematics	3
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Mathematics Electives (9 credits)

Approved graduate-level mathematics courses.

University Electives (6 credits)

Graduate-level courses (Mathematics, Education, or other) approved by adviser.

Alternative math/stat courses may be substituted with approval from the MS-MTCH Coordinator. Note also that many of these courses are "Topics" courses, and with MS-MTCH Coordinator approval may be repeated for credit.

For those in MEd/GTEP program, consult with the MS-MTCH Coordinator for Dual-Degree option.

MTH 501 MATHEMATICS CURRICULUM PROJECT

As part of the degree requirements, the student will complete a mathematics curriculum project. In this independent research project, the student will explore a mathematical topic and will develop and classroom-test curriculum materials related to that topic. Under the guidance of a faculty member, the student will prepare a research paper and present this research in a colloquium. Requirements for the course are listed separately in the handout: M.S. in Mathematics for Teachers' Curriculum Projects.

Planning a MS-MTCH Degree Program:

Many of the courses are offered on a three-year cycle. It is important to take as many of the required courses as you can prior to choosing elective courses. Also, start thinking about the 501 Math Curriculum Project early in your program. It generally takes at least three terms to narrow in on a topic, choose a 501 advisor, put a project committee together, do the background research, develop the materials and test them with students, evaluate the results, finish the entire paper, and make a public presentation of your work. Meeting with the MS-MTCH Program Coordinator to plan your degree will make the process much smoother. Additional degree planning tips can be found on the handout: Crucial Issues in Your MS in Mathematics for Teachers Program.

MATHEMATICAL SCIENCES PH.D.

The Ph.D in Mathematical Sciences at Portland State University is a research degree. It aims to develop student's ability to conduct and share original research.

Mathematical Sciences at PSU encompass a wide range of specialties as can be seen from our faculty profiles webpage. Traditionally at PSU, students often engage in multidisciplinary research work and take graduate courses in other departments. The program prepares for academic professions as well as a broad range of non academic professions. Indeed, Mathematical Sciences form an integral part of emerging fields such as computational medicine/biology, artificial intelligence, information security, and e-sciences. In today's data-intensive world, Mathematical Sciences allow to answer questions and solve problems in areas as diverse as economics and finance, government and law, the arts and music, medicine, weather and air quality forecasting, climate modeling, and national defense in addition to its traditional application in the physical sciences. The program is flexible, learner driven, and provides participants with a structured environment, professional guidance, and advising support.

The program accommodates a broad range of interdisciplinary partners. Students choose a main concentration within the Mathematical Sciences as well as a secondary concentration. This secondary concentration

can be chosen within the Mathematical Sciences or alternatively, within the natural sciences, social sciences, or engineering. Typical examples of secondary concentrations outside of Mathematical Sciences include Computer science, Engineering, Physics, Biology, Economics, Systems Science, Finance, Urban Studies and Planning, Public Health and Medicine.

ADMISSION

Program prerequisites:

Applicants for admission to the Mathematical Sciences Ph.D. program will be expected to have completed an undergraduate degree with the equivalent of a bachelor's degree in Mathematics or Statistics containing an adequate background in Computer Science. Applicants with degrees in related disciplines will be considered provided the applicant demonstrates a strong mathematical proficiency. Admission to the program requires that the department find the applicant prepared to undertake study leading to the doctoral degree in mathematics.

In addition to program prerequisites, applicants must meet the university's minimum admission requirements including English language proficiency.

This program admits once per year for fall term

only. See instructions on how to apply:

<http://www.pdx.edu/math/how-to-apply>

PROGRAM REQUIREMENTS

Below is an overview of the program. For additional details please read the Ph.D. Handbook and the general rules (p. 54) in the University Bulletin.

I. Planning a Ph.D. in Mathematical Science Program:

Upon admission to the program the student will be assigned an academic advisor providing support for the student's exam schedule and program of courses. After satisfactory completion of the qualifying and comprehensive examinations, a dissertation committee headed by a thesis advisor will be appointed to supervise the remainder of the student's program. The Office of Graduate Studies has a summary of the procedures for doctoral degrees on their website:

<http://www.pdx.edu/ogs/procedures-doctoral-degrees>.

II. Course requirements:

A minimum of 81 credit hours distributed as follows:

Approved graduate level courses - 42 credits

a) Primary concentration: Mathematics and Statistics courses at the 600 level - 18 credit minimum.

b) Secondary concentration: courses at the 600 level in Mathematics and Statistics or courses at the 500 and 600 level offered in another discipline - 9 credit minimum.

c) Other courses in Mathematics and Statistics at the 500 and 600 level, including Mth/Stat 601 (non-dissertation research) - 15 credits. For students entering the program with a Master's degree, up to 9 credits can be transferred from graduate Mathematics or Statistics courses offered in other universities.

Mathematical/Statistical Literature and Problems course (Math/Stat 501) - 3 credits. This requirement can be waived in full or partially in case of a Master's thesis or a similar exercise performed in another university. When a partial waiver is provided, the candidate is asked to perform an oral presentation of his Master's thesis or similar exercise under the rules of the Math/Stat 501 course.

Doctoral seminar/Internship (Math 607) - 9 credits.

Dissertation (Math 603) - 27 credits.

Moreover, the candidate will be expected to participate in colloquia and research seminars presented in the department.

III. Examinations:

Qualifying examinations: These exams are intended to verify that the student has the prerequisites for high-level mathematical courses and also to verify that the student has the basic capabilities and interest in mathematical research. This examination consists of two Master's level written examinations offered in the Fariborz Maseeh Department of Mathematics and Statistics ("the department"), as well as defending a Math501/Stat501 Mathematical/Statistical Literature and Problems course. In both cases, this course consists of reading critically a research article and presenting it in writing as well as orally in front of a mathematically literate audience. The qualifying examinations are to be completed before the end of the second year after enrollment in the program, so that the student may engage early-on in the study of higher level mathematics and in research.

Comprehensive examinations: This is an oral exam conducted by an examining committee composed of three or more PSU faculty members, a majority of which hold a primary appointment in the department. The scope of the exam is determined by a syllabus prepared by the candidate's examining committee. The syllabus reflects the primary as well as the secondary concentration of the candidate. A student may receive from the examining committee a grade of unconditional pass, conditional pass (with conditions specified by the examining committee), or fail. A (strict) majority of votes in favor of either pass or conditional pass is needed for the student not to fail the exam. The candidate is allowed to stand for this exam at most twice, and must pass this exam within five years after entering the program to continue.

IV. Dissertation:

Upon the successful completion of the course and examination requirements, the student proposes for approval by the Mathematical Sciences Ph.D. committee and subsequently by the Office of Graduate Studies, a dissertation committee. This committee comprises a research adviser who is a faculty member in the department, at least two other faculty members, and a representative from the Office of Graduate Studies. Additional faculty members may also serve on the dissertation committees. Overall, at least half of the members of the dissertation committee must be member of the department. The dissertation committee must also satisfy the rules dictated by the Office of Graduate studies.

V. Advancement to Candidacy:

With guidance from the dissertation committee, the student will prepare a thesis proposal and presentation. The goal of this presentation is to inform the committee of the intent of the dissertation and receive their critical comments. Upon subsequent recommendation of the dissertation committee, the student is recommended for advancement to candidacy for the degree of Doctor of Philosophy.

VI. Thesis Defense:

After preparation of the written dissertation, and with the approval of the dissertation committee, the Ph.D. degree candidate will present their work in a dissertation defense culminating in their research activities.

VII. Residency:

A minimum of three consecutive terms in this program must be spent in full-time residence at Portland State University.

MATHEMATICS EDUCATION PH.D.

The Fariborz Maseeh Department of Mathematics and Statistics offers a Ph.D. in Mathematics Education. The main objective of this program is to develop educators with an understanding of mathematics and its teaching and learning, and with the capabilities for research and professional practice in the field. This program provides a balance between mathematics and mathematics education in order to develop mathematics educators who can become: (i) Faculty members in mathematics departments or schools of education in universities, four year colleges, or community colleges; (ii) Curriculum specialists in mathematics, supervisors of mathematics at the middle school level or secondary school level, or mathematics specialists in state or local departments of education; (iii) Private sector specialists in mathematics education.

ADMISSION:

Program prerequisites:

Candidates in this program must currently have (or complete during their program) a master's degree in mathematics equivalent to the MS/MA (p. 263) degree or the MS-MTCH (p. 267) degree at Portland State University.

In addition to program prerequisites, applicants must meet the university's minimum admission requirements including English language proficiency.

This program admits once per year for fall term only.

See instructions on how to apply:

<https://www.pdx.edu/math/how-to-apply>

DEGREE REQUIREMENTS

Students are responsible for knowing University-level graduate policies and procedures for obtaining the degree. These policies and procedures are in Graduate Studies section of the PSU Bulletin. Several of the most frequently asked about University-level graduate policies and procedures can also be found on the Office of Graduate Studies website.

Candidates must complete an approved program of 84 credit hours consisting of three major components: coursework, a research practicum experience, and dissertation research.

Coursework must include a minimum of:

- 18 credit hours in Mathematics Education Research Courses (Mathematics 690-695);
- 18 credit hours of other 500-600 level mathematics courses; and
- 18 hours of graduate coursework in supporting areas outside of mathematics (such as curriculum and instruction, psychology, educational policy, science, computer science, philosophy, sociology, anthropology, etc.)

Research Practicum MTH 601 (3 credits)

The purpose of the research experience will be to provide candidates with an opportunity to use methodological techniques in mathematics education early on in their course of study. Prior to the dissertation, candidates will be expected to gain experience with the qualitative and quantitative approaches that are now used by many researchers and curriculum developers in mathematics education. Some examples of possible research practicum experiences are: case studies of students' learning documented over time, studies of teachers' practice in the mathematics classroom, documentation of teachers' beliefs about mathematics as they implement new curricula.

Dissertation Research MTH 603 (27 credits)

The Ph.D. dissertation research will ordinarily be conducted under the guidance of a mathematics educator in the Fariborz Maseeh Department of Mathematics and Statistics. The dissertation is the most important part of a candidate's program, and involves identifying and researching a significant problem which builds upon previous research, and which will make an original contribution to an area of research in mathematics education. Dissertation committees consisting of a mix of faculty with expertise in mathematics education, mathematics, curriculum and instruction, and other areas outside of mathematics education will be encouraged. After completing the comprehensive examinations, the chairperson and dissertation committee will be appointed. The student will develop a dissertation proposal which will be defended in an oral presentation to the committee. When the proposal has been approved by the committee, and if necessary by the University Human Subjects research Review committee, the student will be considered a candidate for the Ph.D. in mathematics education. The dissertation must be completed according to the outlines of the proposal approved by the candidate's committee. Students must register for dissertation credit during each term they are engaged in dissertation research. Upon completion of doctoral thesis work, the candidate will defend the dissertation before the committee in an oral presentation that is open to other interested faculty and students. The student is expected to demonstrate knowledge of the research literature in mathematics education that relates to the particular problem chosen for research, and to show how the dissertation contributes to work in this area.

Demonstrated competency areas:

Prior to completing their program, candidates in the Mathematics Education Ph.D. program will be expected to demonstrate competency in the following 7 areas:

1. mathematics education
2. mathematics
3. supporting content areas
4. teaching
5. the use of technology in teaching mathematics
6. the application of mathematics education in an urban setting
7. research in mathematics education

1. Mathematics Education:

The competency in mathematics education can be met by successfully completing graduate coursework in mathematics education and the psychology of learning and by passing a written, comprehensive exam.

Coursework: Candidates must successfully complete the 6 graduate seminars in Mathematics Education (Mth 690, Mth 691, Mth 692, Mth 693, Mth 694, and Mth 695) and at least one course in the psychology of learning. Course titles and descriptions are listed below.

Comprehensive Exam in Mathematics Education: Prior to being advanced to candidacy, students must pass and orally defend a written, comprehensive exam that covers the key developments and theoretical perspectives on the history of mathematics education, the teaching and learning of mathematics, and the development of curriculum in mathematics. The implications of this information for urban populations and settings will also be included. Students will have two weeks to compose their responses, which they will defend orally before an examination committee.

2. Mathematics:

Applicants to the Ph.D. in Mathematics Education are expected to have at least a master's degree in mathematics or a degree equivalent to the MS-MTCH (p. 267) degree at Portland State University. The competency in mathematics can be met by successfully completing additional graduate-level coursework in mathematics beyond the masters and by passing a written comprehensive exam.

Coursework: Candidates must complete an additional 18 graduate-level credits in mathematics beyond the masters (or the equivalent of the MS-MTCH degree at PSU) that together with their master's program reflects a sufficient breadth and depth of the topics in elementary calculus and analysis, linear and abstract algebra, geometry and topology, probability and statistics, and other applications

Comprehensive Exams in Mathematics: Prior to being advanced to candidacy, students must pass and orally defend a written comprehensive exam in mathematics that covers the big ideas of analysis, linear and abstract algebra, plus one of the following areas: probability, statistics, topology, geometry, or applied mathematics. Students will sit for the exam but will have the opportunity to defend their responses orally before an examination committee.

3 Supporting Content Areas:

The competency in supporting content area(s) can be met by successfully completing 18 graduate credit hours in areas outside of mathematics such as, curriculum and instruction, psychology, educational policy, science, computer science, philosophy, sociology, anthropology, etc. Candidates will be expected to plan this portion of their program in consultation with their adviser so that the 18 credits forms a coherent supporting focus and includes at least one course in the psychology of learning.

4. Teaching:

It is recommended that candidates in the Ph.D. program acquire mathematics teaching experience at both the K-12 and the college level. At a minimum, candidates must demonstrate competency in teaching mathematics for at least one of these two levels.

5. The Use of Technologies in Teaching Mathematics:

Students will be expected to acquire background and experiences in how students best learn mathematics within technologically enhanced learning environments either by working with students in K-12 classrooms or by teaching courses in the department that utilize technology (e.g., pre-calculus, calculus, linear algebra, or differential equations). The role of technology in mathematics education will be addressed throughout the doctoral program. In the seminar courses on teaching and learning (Mth 693 and Mth 694) and in the topics courses (Mth 695) students will become versed in the research literature on technology in mathematics education.

The Fariborz Maseeh Department of Mathematics and Statistics also offers **Mth 588 "Technology for Teachers"** which provides exposure to a variety of technologies including symbolic algebra manipulators (i.e., Maple, Mathematica, and Derive), graphing packages (Derive, various graphing calculators), and geometrical tools (Cabri geometry, Geometer's Sketchpad). In addition students are introduced to the various mathematics resources and information available on the World Wide Web. **This course, or its equivalent, will be required of all participants in the program.**

6. Applications of Mathematics Education in an Urban Setting:

Portland State University and the Portland Metro area provide a "natural laboratory" for conducting research on the teaching and learning of mathematics within an urban setting. Moreover, integral to the mission of Portland State University is a commitment to work with community partners in the promotion of educational reform K-16. Candidates in the Ph.D. program will be expected to demonstrate competency in working with urban populations and settings either by providing service or conducting research with community partners.

7. Research in Mathematics Education:

The competency in research in mathematics education can be met by successfully completing coursework in research in mathematics education, a research practicum project, and the doctoral dissertation.

Coursework: Students need to demonstrate experience with both quantitative and qualitative research methods which can be done through coursework and within the research practicum. Students must successfully complete Mth 692, Research Methodology and Research Design in Mathematics Education. Some students may also wish to

take some additional coursework in research methodologies from outside areas.

Residency

The program will require at least the equivalent of three years' full time work beyond the master's degree to complete. A minimum of three consecutive terms must be spent in full-time residence (9 credits or more). The minimum credit hour requirement beyond the MS/MA (p. 263) or MS-MTCH (p. 267) degree is 84 hours, of which 27 must be devoted to the dissertation.

MATHEMATICS FOR MIDDLE SCHOOL MATHEMATICS TEACHERS GRADUATE CERTIFICATE

The Graduate Certificate in Mathematics for Middle School Mathematics Teachers (GCMS) consists of six graduate mathematics courses specifically designed for teachers who desire to teach middle school mathematics. The program provides a broad mathematics background appropriate for middle school teachers, a familiarity with the current middle school curriculum ideas, and a sensitivity to the special characteristics and needs of early adolescents.

The Graduate Certificate program by itself does not lead to a teaching license. If you are interested in information on how to obtain teacher licensure, please contact the School of Education, GTEP program.

ADMISSION

Program prerequisites

1. Completed B.A. or B.S. degree.
2. GPA: 3.0 cumulative undergraduate, or 3.0 for upper division courses, or 3.0 in all graduate credit courses (a minimum of 12 credits).
3. Completion of Mth 111 and Mth 112 (College Algebra/Trigonometry) and Mth 211, Mth 212, Mth 213 (Foundations of Elementary Mathematics) or the equivalent.

The admission requirements are consistent with admission to graduate study in the Department of Curriculum and Instruction in the Graduate School of Education. If admitted to graduate study in the Department of Curriculum and Instruction, the graduate credits of the GCMS may be applied toward an M.A. or M.S. in that department (please see an adviser in the Graduate School of Education for this option).

In addition to program prerequisites, applicants must meet the university's minimum admission requirements including English language proficiency.

This program currently offers rolling admissions.

Instructions on how to apply: if you are not already enrolled in a graduate degree program at Portland State University then see this page for admission instructions: <http://www.pdx.edu/math/how-to-apply>.

If you are currently a graduate student and wish to add the certificate to your program, please submit a GO-19 Request for Change of Major form. The form must be signed by your current department's Chair before submitting it to the Mathematics and Statistics department.

PROGRAM GOALS, OBJECTIVES:

The goals of the middle school mathematics certificate program are to offer a *comprehensive mathematics program* that:

- Directly relates the content of mathematics courses for pre- and in-service teachers to the mathematical content appropriate for middle school students.
- Is geared to the special characteristics of the student population of an urban university, and takes advantage of the varied resources found in an urban setting.
- Models a philosophy of teaching and learning mathematics that is consistent with current recommendations for effective instruction in middle school classrooms.

The course content and instructional practices of this graduate certificate program are consistent with the mathematical reform recommendations of the National Council of Teachers of Mathematics and the Mathematical Association of America.

The GCMS gives teachers an opportunity to enrich and broaden their mathematics background and to experience an environment that models the way we believe middle school mathematics should be taught. That is, teaching prospective middle school teachers in the manner that we would expect them to teach mathematics in middle school classrooms. In our courses we try to practice the following:

- Problem solving activities that promote exploration and experimentation and which allow students to construct (and reconstruct) mathematical understanding and knowledge.
- Use of models, concrete materials, diagrams, and sketches that promote visual reasoning as well as symbolic deductive modes of thought.
- Development of multiple strategies or approaches to problems - discussing and listening to how others think about a concept, problem, or idea.
- Small group work and cooperative learning.
- Extensive use of writing on mathematical investigations and problem summaries.
- Written communication between instructors and individual students.

- Multiple methods of assessment.
- Developing an awareness of one's own mathematical thought processes (and feelings about mathematics) and those of others.
- Supportive and cooperative class environment.

CORE REQUIREMENTS

The certificate program consists of the following six (6) mathematics courses totaling 24 credits.

Courses

Mth 591	Experimental Probability and Statistics for Middle School Teachers	4
Mth 593	Geometry for Middle School Teachers	4
Mth 594	Arithmetic and Algebraic Structures for Middle School Teachers	4
Mth 595	Historical Topics in Mathematics for Middle School Teachers	4
Mth 596	Concepts of Calculus for Middle School Teachers	4
Mth 597	Mathematics in the Middle School Classroom	4

Successful completion of the certificate requires students to have a cumulative PSU graduate GPA of 3.0 or higher (computed on all graduate credits taken at PSU) and a cumulative program GPA of 3.0 or higher (computed on all courses used for the graduate certificate). Please contact the program adviser during the term prior to the term of anticipated graduation to confirm that all program requirements have been completed. Instructions for applying to graduate as well as application deadlines can be found on the office of Graduate Studies website: <https://www.pdx.edu/ogs/>.

APPLIED STATISTICS GRADUATE CERTIFICATE

The Graduate Certificate Program in Applied Statistics (GCAS) is primarily designed to provide a companion credential for students in other graduate programs (including Mathematics) who have demonstrated expertise in methods and techniques for the quantitative analysis and modeling of data. Graduate programs that share a common interest in the application of statistical methods to the analysis of data and the solutions of problems include: Psychology, Civil and Environmental Engineering, Economics, Electrical and Computer Engineering, Computer Science, Engineering and Technology Management, Environmental Sciences and Resources, Mechanical Engineering, Political Sciences, Sociology, Urban Studies, Systems Science. However, the GCAS

program equally serves those who want to pursue just the graduate certificate.

ADMISSION:

Program prerequisites:

Prospective students must have a basic preparation in mathematics and statistics and in a particular disciplinary field that would allow for advanced work in statistical methods as well as applications in one or more content areas. This preparation must be demonstrated by the completion of calculus-based courses in probability and distribution theory. A background in basic statistical methodology is assumed. Prerequisites for the GCAS are: 3 terms of Calculus (Mth 251-253), Linear Algebra (Mth 261), and a statistical methods course (Stat 452/552 or Stat 244). As the sequence Stat 551, Stat 552 is a prerequisite, it is not applicable toward program requirements.

Please note that this program is not appropriate for students currently enrolled in the MS Statistics (p. 265) program.

This program currently offers rolling admissions.

Instructions on how to apply: if you are not already enrolled in a graduate degree program at Portland State University, see this page for admission instructions: <https://www.pdx.edu/math/how-to-apply>. If you are currently a graduate student and wish to add the certificate to your program, please submit a GO-19 Request for Change of Major form. These forms are found on the Office of Graduate Studies website. The form must be signed by your current department's Chair before submitting it to the mathematics and statistics department.

PROGRAM GOALS, OBJECTIVES:

Many graduate programs include a research methods component that requires the student to acquire some exposure to statistical methods as the basis for the design of experiments and analysis of data. The Graduate Certificate in Applied Statistics (GCAS) goes well beyond those requirements -- the student develops both a depth of understanding of methods and a breadth of application across disciplines. It is expected that a student who earns this certificate would be capable of performing sophisticated statistical analysis and modeling for problems within his or her particular discipline. They would also be expected to be able to access and understand consultation with professional statisticians and provide consultation in the application of statistical methods for research purposes and in the solution of practical problems. The goal of the GCAS program is a coordinated plan for which students will be assured of exposure to statistical techniques needed in most applications.

CORE REQUIREMENTS:

This Graduate Certificate credential may be completed with a minimum of 24 credit hours of statistical graduate

coursework with no comprehensive exam, while the MS in Statistics requires more extensive coursework and examinations.

Graduate certificate students must have a minimum 3.00 GPA on all courses applied to the program of study, as well as a minimum 3.00 GPA in all graduate-level courses taken at PSU. Although grades of C+, C, and C- are below the graduate standard, they may be counted as credit toward a graduate certificate with the specific written approval of the program.

Students are responsible for knowing University-level graduate policies and procedures for obtaining the certificate. These policies and procedures are in the Graduate Studies section of the PSU Bulletin. Several of the most frequently asked questions about University-level graduate policies and procedures can also be found on the office of Graduate Studies website: <https://www.pdx.edu/ogs/>.

Course of Study

The program of study leading to a GCAS requires the successful completion of a minimum of 24 graduate credit hours of coursework distributed as three components:

1. **Applied statistics core sequence:** The goal of this sequence is to introduce students to fundamentals of applied statistics. The three-term core course sequence: Stat 564 Applied Regression Analysis (3 credits) and Stat 565, Stat 566 Experimental Design: Theory and Methods, (3 credits each)
2. **Additional applied statistics courses:** The objective is developing a breadth of knowledge in the application of statistical methods within the discipline and in related areas. A minimum of 12 additional hours chosen from the list of interdisciplinary courses below. **Please note that 510/610 courses and Stat 551, Stat 552 are not acceptable toward the certificate.**
3. **Statistical consulting:** To provide experience in dealing with real statistical problems Stat 570 Statistical Consulting (3 credits). Please note that this course is only offered during spring term.

All courses applied to certificate program must have a B- or better grade. To continue in the program, students are required to maintain regular graduate student status, requiring a cumulative 3.00 GPA for all coursework and a term GPA of at least 2.67.

Theory courses

Mth 667	Stochastic Processes and Probability Theory I	3
Mth 668	Stochastic Processes and Probability Theory II	3
Mth 669	Stochastic Processes and Probability Theory III	3
Stat 561	Mathematical Statistics I	3

Stat 562	Mathematical Statistics II	3
Stat 563	Mathematical Statistics III	3
Stat 661	Advanced Mathematical Statistics I	3
Stat 662	Advanced Mathematical Statistics II	3
Stat 663	Advanced Mathematical Statistics III	3
Stat 664	Theory of Linear Models I	3
Stat 665	Theory of Linear Models II	3
Stat 666	Theory of Linear Models III	3
Stat 671	Statistical Learning I	3
Stat 672	Statistical Learning II	3
Stat 673	Statistical Learning III	3

Additional applied statistics interdisciplinary course list:

CE 566/ESM 566	Environmental Data Analysis	4
CS 545	Machine Learning	3
Ec 572	Time Series Analysis and Forecasts	4
Ec 575	Applied Advanced Econometrics	4
ME 588	Design of Industrial Experiments	4
PA 551	Analytic Methods in Public Administration I	3
PA 552	Analytic Methods in Public Administration II	3
Psy 523	Structural Equation Modeling	4
Psy 524	Research Design in Applied Psychology	4
Soc 593	Quantitative Methods	4
Soc 597	Applied Survey Research	4
Stat 567	Applied Probability I	3
Stat 568	Applied Probability II	3
Stat 571	Applied Multivariate Statistical Analysis	3
Stat 572	Bayesian Statistics	3
Stat 573	Computer Intensive Methods in Statistics	3
Stat 576	Sampling Theory and Methods	3
Stat 577	Categorical Data Analysis	4
Stat 578	Survival Analysis	3
Stat 580	Nonparametric Methods	3
USP 532	Data Collection	4

Please contact the program adviser during the term prior to the term of anticipated graduation to confirm that all program requirements have been completed. Instructions for applying to graduate as well as application deadlines can be found on the Office of Graduate Studies website: <https://www.pdx.edu/ogs/>.

Philosophy

175 Fourth Avenue Building (FAB)

503-725-3524

www.pdx.edu/philosophy/

- B.A., B.S.
- Minor
- Minor in History and Philosophy of Science

For the requirements for this interdisciplinary minor, see History (p. 249)

Undergraduate program

Philosophy is the study of the most fundamental issues concerning reality, knowledge, and value. Its fields include metaphysics (ultimate nature of reality), epistemology (nature of knowledge and reasoning), and ethics (principles of moral obligation). Through the study of the Philosophy Department's curriculum, students learn about the historical traditions and contemporary theories in these fields. Philosophy also examines the basic concepts, principles, and arguments of the major scientific and intellectual disciplines concerned with the study of domains of reality, features and practices of knowledge, and social values and arrangements. These topics are addressed in areas such as philosophy of science, philosophy of mind, philosophy of language, philosophy of law, political philosophy, and philosophy of religion.

The study of philosophy enriches students' lives as metaphysical, epistemological, and ethical reflection is essential to individual development and cultures across time and place. Moreover, philosophy enhances skills of abstract thinking, clear argumentative writing, careful reading and analysis of texts, and oral argument. Philosophical training is then valuable in almost any area of life and any occupation that requires examination and analysis of problems, critical evaluation of alternative solutions, and rational advocacy of conclusions and courses of action. Philosophy is also an excellent undergraduate major for pre-professional students: philosophy majors outscore all other majors on the Graduate Record Exam (GRE's) and receive scores among the highest on the LSAT's, GMAT's, and MCAT's. It is ideal for those who aspire to work in the legal profession and fitting for students planning careers in medicine. And finally, as the quintessential interdisciplinary course of study, philosophy is a wonderful second-major and compliments the course of study in the physical and social sciences, arts, and humanities.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree map and expected learning outcomes for Philosophy's undergraduate degree, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

PHILOSOPHY B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, the philosophy major must take a minimum of 56 credits in philosophy courses. Specific requirements are as follows:

Courses

Phl 201	Introduction to Philosophy	4
Phl 300U	Philosophical Methods and Concepts	4
Phl 301U	Ancient Philosophy	4
Phl 303	Early Modern Philosophy	4
Phl 308U	Elementary Ethics	4
Phl 324U	Introduction to Formal Logic I	4

Two courses taken from the following (historical figures): (8 credits)

Phl 414	Plato	4
Phl 415	Aristotle	4
Phl 416	The Rationalists: Descartes, Leibniz, Spinoza	4
Phl 417	The Empiricists	4
Phl 419	Kant	4
Phl 420	Wittgenstein	4
Phl 451	Classical Figures	4

Four courses taken from the following (thematic courses): (16 credits)

Phl 423	Metaphysics	4
Phl 424	Epistemology	4
Phl 432	Philosophy of Mind	4
Phl 433	Philosophy of Language	4
Phl 445	Advanced Ethics	4
Phl 446	Topics in Ethics	4
Phl 447	Topics in Social and Political Philosophy	4
Phl 449	Philosophy of Sustainability	4
Phl 460	Contemporary European Philosophy	4
Phl 470	Philosophy of Science	4
Phl 471	Topics in Philosophy of Science	4
Phl 474	Philosophy of Logic	4
	Philosophy electives	8

Subtotal: 56

A maximum of 8 credits of philosophy taken under the undifferentiated grading option (pass/no pass) are acceptable toward fulfilling department major requirements.

PHILOSOPHY HONORS OPTION

The Philosophy Department's Honors Option is designed to challenge and enrich the educational experience of outstanding philosophy majors and, with a successful completion, recognize and honor their achievements. Application process: students must apply to be admitted. To apply, fill out an application (available at the department office) and submit it together with a DARS report and a writing sample to the honors option coordinator. The requirements to qualify for departmental honors include: at least junior standing; completion of at least 20 credits of Philosophy including at least one 400-level course; minimum GPA of 3.50 in philosophy courses; writing sample. Requirements for receiving departmental honors include: completion of Honors Seminar (Phl 485) and Honors Thesis (Phl 403) with receipt of A- or above in both courses; minimum GPA of 3.5 in philosophy courses at graduation; at least 60 credits in philosophy. For further details on requirements, expectations, and procedures, please contact department office or honors option coordinator.

PHILOSOPHY MINOR

REQUIREMENTS

To earn a minor in philosophy a student must complete 28 credits (8 credits of which must be taken in residence at PSU), to include the following:

Courses

Phl 201	Introduction to Philosophy	4
Phl 301U	Ancient Philosophy	4
Phl 303	Early Modern Philosophy	4
Phl 308U	Elementary Ethics	4
	Philosophy electives	12

Philosophy electives: to include a minimum of 8 credits in upper-division courses
Subtotal: 28

A maximum of 4 credits of philosophy taken under the undifferentiated grading option (pass/no pass) are acceptable toward fulfilling department minor requirements.

Physics

134 Science Research and Teaching Center (SRTC)
503-725-3812
www.pdx.edu/physics/

- B.A., B.S.
- Minor
- Secondary Education Program
- M.A., M.S.

- Ph.D. – Applied Physics

Undergraduate programs

Physics is the branch of knowledge that attempts to explain all of the phenomena we observe or infer on earth and in the universe. Its study has made possible a modern understanding of the origin of the universe as well as the behavior of biological materials and chemical processes. Scientists trained in this field can engage in such diverse areas as solid state devices, particle physics, energy and the environment, biotechnology, and space travel.

The study of physics does not involve the following of a specific recipe or set of rules; rather it entails developing an attitude or way of looking at phenomena and asking questions. Physicists seek to understand how the physical universe works, no matter what the scale of observation—from quarks to quasars, from the time it takes the proton to spin, to the age of the cosmos. The answers to these questions are summarized into statements called laws. We live in the age of physical law. Awareness of the beauty, harmony, and interplay of the laws of physics greatly enhances our view and appreciation of our environment.

As an undergraduate, you will take a group of core courses that will give you a general background in the subject. You will study force and motion, heat, optics, electricity, magnetism, atomic and nuclear physics, quantum mechanics, and the physical properties of materials, learning both the theoretical and the experimental aspects.

Physicists are employed by almost all industries, particularly by the technical industries and by government laboratories. Roughly half of all students with a bachelor's degree in physics go on to graduate work. In addition to a traditional graduate curriculum in physics or astronomy, they can enter programs in optics, applied physics, engineering physics, and education. Biophysics, material science, atmospheric physics, environmental science, medical physics, and finance are particularly popular fields, now. Environmental programs, electrical engineering, nuclear engineering, and computer science are common graduate school tracks. Medicine and law are also fields that welcome students with physics degrees. Many physicists are entrepreneurs who start their own companies.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Physics' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

PHYSICS B.A./B.S.

It is important that students planning to major in physics contact the Department of Physics prior to the start of their work in order that a coherent program can be planned with their assigned adviser.

Students planning to transfer to PSU from community colleges or other universities are strongly advised to contact the Department of Physics well ahead of their proposed date of transfer so that a smooth transition, which avoids course duplication and untimely delays, can be accomplished. Students need to choose between the standard option, the environmental physics option, and the biomedical option.

REQUIREMENTS

In addition to meeting the general University degree requirements, the student must meet the following minimal departmental course requirements:

Standard Option

Ph 201	General Physics	4
Ph 202	General Physics	4
Ph 203	General Physics	4
	or	
Ph 211	General Physics (with Calculus) I	4
Ph 212	General Physics (with Calculus) II	4
Ph 213	General Physics (with Calculus) III	4
	or	
Ph 221	General Physics (with Calculus) I	3
Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
	With	
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
Ph 311	Introduction to Modern Physics I	4
Ph 312	Introduction to Modern Physics II	4
Ph 314	Experimental Physics I	4
Ph 315	Experimental Physics II	4
Ph 316	Experimental Physics III	4
Ph 322	Computational Physics	4
Ph 424	Classical Mechanics I	4

Ph 426	Thermodynamics and Statistical Mechanics	4
Ph 431	Electricity and Magnetism I	4
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 253	Calculus III	4
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Mth 261	Introduction to Linear Algebra	4

One year of general chemistry:

Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 223	General Chemistry III	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ch 229	General Chemistry Laboratory	1

At least two of the following courses:

Ph 411	Introduction to Quantum Mechanics	4
Ph 425	Classical Mechanics II	4
Ph 432	Electricity and Magnetism II	4
Ph 434	Methods of Mathematical Physics	4
Ph 464	Applied Optics	4

Two courses in a related area of science or technology (minimum 6 credits total):

biology, geology, chemistry, computer science, electrical engineering, or physics	6
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Subtotal: 101-104

Environmental Option

Ph 201	General Physics	4
Ph 202	General Physics	4
Ph 203	General Physics	4
	or	
Ph 211	General Physics (with Calculus) I	4
Ph 212	General Physics (with Calculus) II	4
Ph 213	General Physics (with Calculus) III	4
	or	
Ph 221	General Physics (with Calculus) I	3
Ph 222	General Physics (with Calculus) II	3
Ph 223	General Physics (with Calculus) III	3
	With	
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1

Ph 311	Introduction to Modern Physics I	4	Choose 15 credits of electives from the following:		
Ph 312	Introduction to Modern Physics II	4	Bi 357	General Ecology	4
Ph 314	Experimental Physics I	4	Bi 476	Population Ecology	5
Ph 316	Experimental Physics III	4	G 322	Global Biogeochemical Cycles	5
Ph 375U	Climate Change and Human Life	4	G 458	Astrobiology	4
Ph 426	Thermodynamics and Statistical Mechanics	4	G 484	Field Geophysics	4
Ph 431	Electricity and Magnetism I	4	Geog	Climate and Water Resources	4
Mth 251	Calculus I	4	310U/Sci		
Mth 252	Calculus II	4	333U		
Mth 253	Calculus III	4	Geog 311U	Climatology	4
Mth 254	Calculus IV	4	Geog 312U	Climate Variability	4
Mth 256	Applied Ordinary Differential Equations	4	Geog 314U	Severe Weather	4
Mth 261	Introduction to Linear Algebra	4	Ch 360U	Origins of Life on Earth	4
Choose one of the following courses:			Ch 426	Instrumental Analysis	4
Ph 424	Classical Mechanics I	4	Ch 427	Instrumental Analysis Laboratory	4
Ph 411	Introduction to Quantum Mechanics	4	CE 371	Environmental Engineering	4
Ph 431	Electricity and Magnetism I	4	ESM 221	Applied Environmental Studies: Problem Solving	4
Ph 432	Electricity and Magnetism II	4	ESM 222	Applied Environmental Studies: Policy Consideration	4
Ph 434	Methods of Mathematical Physics	4	ESM 320	Environmental Systems I	4
Ph 464	Applied Optics	4	ESM 321	Environmental Systems II	4
Ph 451	Electron Microscopy	4	ESM 322	Environmental Risk Assessment	4
Ph 322	Computational Physics	4	ESM 324	Environmental Systems Laboratory II	2
Choose one of the following courses:			Subtotal: 113-116		
Ph 471/ESM	Physical and Human Dimensions of Climate Change	4	See adviser for substitutions.		
Ph 473	Alternative Energies	4	Biomedical Option		
Ph 490	Cellular and Molecular Biophysics	4	Required physics courses:		
One year of general chemistry:			Ph 201	General Physics	4
Ch 221	General Chemistry I	4	Ph 202	General Physics	4
Ch 222	General Chemistry II	4	Ph 203	General Physics	4
Ch 223	General Chemistry III	4		or	
Ch 227	General Chemistry Laboratory	1	Ph 211	General Physics (with Calculus) I	4
Ch 228	General Chemistry Laboratory	1	Ph 212	General Physics (with Calculus) II	4
Ch 229	General Chemistry Laboratory	1	Ph 213	General Physics (with Calculus) III	4
One year of principles of biology:				or	
Bi 211	Principles of Biology: Molecular Cell Biology & Genetics	4	Ph 221	General Physics (with Calculus) I	3
Bi 212	Principles of Biology: Development, Evolution & Ecology	4	Ph 222	General Physics (with Calculus) II	3
Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4	Ph 223	General Physics (with Calculus) III	3
Bi 214	Principles of Biology Lab I	1		With	
Bi 215	Principles of Biology Lab II	1	Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Bi 216	Principles of Biology Lab III	1	Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
			Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
			Ph 311	Introduction to Modern Physics I	4

Ph 312	Introduction to Modern Physics II	4
Ph 314	Experimental Physics I	4
Ph 316	Experimental Physics III	4
Ph 426	Thermodynamics and Statistical Mechanics	4
Ph 321	Current Electricity	4
Ph 431	Electricity and Magnetism I	4
Ph 322	Computational Physics	4
At least three of the following electives in physics:		
Ph 451	Electron Microscopy	4
Ph 464	Applied Optics	4
Ph 490	Cellular and Molecular Biophysics	4
Ph 337	Physics in Biomedicine	4
Please see the undergraduate adviser to register for the following OHSU substitute courses:		
RTT 331	Radiation Therapy Physics I	4
RTT 430	Radiation Therapy Physics II	4
	Upper-division electives in physics (minimum)	12
Required non-physics courses:		
Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 253	Calculus III	4
Mth 254	Calculus IV	4
Mth 256	Applied Ordinary Differential Equations	4
Mth 261	Introduction to Linear Algebra	4
Ch 221	General Chemistry I	4
Ch 222	General Chemistry II	4
Ch 223	General Chemistry III	4
Ch 227	General Chemistry Laboratory	1
Ch 228	General Chemistry Laboratory	1
Ch 229	General Chemistry Laboratory	1
Ch 334	Organic Chemistry I	4
Ch 335	Organic Chemistry II	4
Ch 336	Organic Chemistry III	4
Ch 337	Organic Chemistry Laboratory I	2
Ch 338	Organic Chemistry Laboratory II (nonmajors)	2
Bi 211	Principles of Biology: Molecular Cell Biology & Genetics	4
Bi 212	Principles of Biology: Development, Evolution & Ecology	4
Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4
Bi 214	Principles of Biology Lab I	1
Bi 215	Principles of Biology Lab II	1
Bi 216	Principles of Biology Lab III	1
Subtotal: 129		

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling department major requirements except for those major courses offered on a pass/no pass basis only.

PHYSICS MINOR

REQUIREMENTS

To earn a minor in physics a student must complete 27 credits (9 credits of which must be taken in residence at PSU, and 12 to 15 credits of which must be upper-division), to include the following:

Courses

Ph 201	General Physics	4
Ph 202	General Physics	4
Ph 203	General Physics	4
	or	
Ph 211	General Physics (with Calculus) I	4
Ph 212	General Physics (with Calculus) II	4
Ph 213	General Physics (with Calculus) III	4
	With	
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
	Upper-division physics electives	12-15

Subtotal: 27

A maximum of one-third of the courses taken under the undifferentiated grading option (pass/no pass) is acceptable toward fulfilling department minor requirements. Additional courses may be required as prerequisites.

PHYSICS HONORS TRACK

Adviser: Erik Sánchez

The Physics department's honors track is designed to challenge and enrich the educational experience of superior physics majors and, with a successful completion, recognize and honor their achievements. It is designed specifically for those students who plan to pursue graduate studies in physics or other disciplines that involve scientific research which is either experimental or theoretical in nature. Participation in the track is elective and because honors studies involve a close mentoring relationship with faculty, students will need to coordinate their proposed research topic(s) with an appropriate faculty member.

PHYSICS SECONDARY EDUCATION PROGRAM

Adviser: Andrew Rice

Students who plan to obtain a teaching license with an endorsement to teach physics at the high school level should complete a baccalaureate degree which includes at least 40 credit hours in physics.

REQUIREMENTS

An acceptable course of study should include:

Courses

Ph 201	General Physics	4
Ph 202	General Physics	4
Ph 203	General Physics	4
	or	
Ph 211	General Physics (with Calculus) I	4
Ph 212	General Physics (with Calculus) II	4
Ph 213	General Physics (with Calculus) III	4
	With	
Ph 214	Lab for Ph 201 or Ph 211 or Ph 221	1
Ph 215	Lab for Ph 202 or Ph 212 or Ph 222	1
Ph 216	Lab for Ph 203 or Ph 213 or Ph 223	1
Ph 311	Introduction to Modern Physics I	4
Ph 312	Introduction to Modern Physics II	4
Ph 314	Experimental Physics I	4
Ph 315	Experimental Physics II	4
Ph 316	Experimental Physics III	4
Ph 322	Computational Physics	4
Ph 464	Applied Optics	4
	or	
Ph 426	Thermodynamics and Statistical Mechanics	4

Other courses that may qualify should be discussed with the secondary education adviser.

Courses are to be taken for differentiated grades. A positive recommendation to the Graduate Teacher Education Program will depend on at least a C grade in all physics courses, as well as a cumulative 2.75 GPA.

Graduate programs

The Department offers the degrees of Master of Arts and Master of Science in Physics and Ph.D. in Applied Physics. The M.A. and M.S. programs are designed to further the development of the student as a professional

physicist. Specific programs designed to meet the needs of the individual student are planned in consultation with the graduate advisers.

The department offers graduate courses in classical mechanics, quantum mechanics, electromagnetism, statistical mechanics, physics of condensed matter, atmospheric physics, and biophysics. Current research areas in theoretical and experimental physics include: statistical physics, surface physics (scanning tunneling microscopy, near-field optical microscopy, AFM, electron microscopy), and membrane biophysics (transport in biological and artificial membranes), materials physics, and global change science (climate change and atmospheric physics and chemistry).

The department also participates in the Earth, Environment, and Society PhD Degree Program in Areas of climate change and policy.

DEGREE REQUIREMENTS

Specific departmental requirements are listed below. The complete details of all M.A., M.S. and Ph.D. requirements are outlined in the Department of Physics Graduate Student Handbook and on the web at www.physics.pdx.edu.

PHYSICS M.A./M.S.

REQUIREMENTS

The program must be approved by the student's adviser and must include a minimum of 45 graduate credits in science, including not fewer than 30 credits in physics. These 30 credits in physics must be in 500- or 600- level courses as follows for thesis and non-thesis options:

Thesis Option

Three of the following 600-level courses:

Ph 617	Quantum Mechanics	4
Ph 631/ECE 635	Electromagnetic Fields and Interactions	4
Ph 624	Classical Mechanics	4
Ph 664	Statistical Mechanics	4

And

Ph 507	Seminar	3
	Electives	24
Ph 503	Thesis	6

Subtotal: 45

Non-Thesis Option

Three of the following 600-level courses:

Ph 617	Quantum Mechanics	4
Ph 631/ECE 635	Electromagnetic Fields and Interactions	4

Ph 624	Classical Mechanics	4
Ph 664	Statistical Mechanics	4
	And	
Ph 507	Seminar	3
	Electives	24
Ph 504	Cooperative Education/Internship or	6
Ph 506	Special Projects	6
Subtotal: 45		

Typically, a thesis involves research, Cooperative Education/ Internship involves relevant student experiences obtained in industry or government, and a project involves review of the literature in a certain area of physics. In all cases, a written report, a presentation, and final oral exam are required.

APPLIED PHYSICS PH.D.

REQUIREMENTS

All doctoral students must earn a minimum of 81 credits beyond the bachelor's degree. Candidates for the Ph.D. in Applied Physics must satisfy requirements related to coursework, seminar, and a dissertation, including a minimum of 69 credits as follows:

Courses

Ph 617	Quantum Mechanics	4
Ph 618	Quantum Mechanics	4
Ph 631/ECE 635	Electromagnetic Fields and Interactions	4
Ph 632/ECE 636	Electromagnetic Fields and Interactions	4
Ph 624	Classical Mechanics	4
Ph 585	Experimental Methods in Applied Physics	4
Ph 607	Seminar	6
Ph 603	Dissertation	27
	Electives	12

Electives: (all from one specialty area)

Subtotal: 69

Approved electives in the three specialty areas of Nanoscience and Materials Physics, Atmospheric Physics, and Biophysics are found in the Physics Graduate Student Handbook and on the web at www.physics.pdx.edu. Candidates for the Ph.D. in Applied Physics are required to pass the comprehensive examination, a prospectus examination, and write and orally defend a dissertation.

Pre-professional Programs

503-725-3822,

M305 Smith Memorial Student Union (SMSU) Mezzanine

Portland State offers courses which meet the pre-professional requirements of professional schools within the Oregon State System of Higher Education and, in most cases, the requirements of out-of-state professional schools as well. The program schedules in this section are typical and will vary in individual cases. The majority of pre-professional programs are based on the graduation requirements of other institutions. All pre-professional students should check with their pre-health adviser to keep current on all recent changes and remaining requirements.

Pre-Professional Health Programs

Advisers: E. Benner, A. Dart, A. Douangpanya, I. Garrett, S. Hamington, L. Marsh, A. Schmidt, L. Shatzer, L. Shrestha, M. Yates.

Professional advisers in the Health, Science, and the Earth advising pathway administer programs designed to support students' efforts to prepare for and apply to professional health programs. Pre-professional health programs at Portland State University are not majors. Rather, they are programs in which students take advantage of advising, coursework and resources all designed to support and guide students' efforts to apply to undergraduate and graduate health programs offered at other institutions. There are two types of pre-professional health programs at Portland State – 1) transfer programs, and 2) bachelor's degree programs.

Transfer programs are those in which students complete a set of prerequisite courses at Portland State and then transfer to undergraduate professional health sciences programs at other institutions to complete their bachelor's degrees. The students' focus at Portland State is on fulfilling the admissions requirements of receiving institutions. Transfer programs include the following:

Clinical Laboratory Science

Dental Hygiene

Nursing

Radiation Therapy

Students choosing to continue at PSU, rather than pursue a pre-professional transfer program should meet with a pre-health adviser to determine PSU graduation requirements.

Bachelor's degree programs are those designed to prepare students for masters and doctoral programs in the health sciences that require or recommend completion of a bachelor's degree prior to entry. However, pre-professional bachelor's degree programs at Portland State are not majors. Thus, students must a) select a major and fulfill Portland State's graduation requirements, and b) fulfill the

prerequisite coursework required by the professional graduate programs to which they plan to apply. Majors commonly selected by pre-professional health students include biology, chemistry, health studies, science, social science and psychology. However, a student can select any major offered at Portland State, as long as he or she completes both Portland State's graduation requirements and those of the receiving professional institutions. Professional schools do not prefer one major over another. They do look for students who perform well in prerequisite coursework and who are broadly educated; this can be accomplished with any major.

Professional health sciences programs that require or recommend that applicants earn a bachelor's degree before matriculating include the following:

- Allopathic and Osteopathic Medicine
- Chiropractic Medicine
- Dentistry
- Naturopathic Medicine
- Occupational Therapy
- Optometry
- Pharmacy
- Physical Therapy
- Physician Assistant
- Veterinary Medicine

A typical pre-professional health program, whether it is a transfer or a bachelor's degree program, includes but is not limited to coursework in mathematics, biology, chemistry, physics, English composition, and social science. However, coursework varies, depending on the admissions requirements of the institutions granting the professional degrees. It is essential that a student's academic program be planned with an advisor in the Health, Science, and the Earth pathway.

PSU's pre-health advisers work closely with students to facilitate their ability to plan coursework and activities strategically; to integrate personal, academic, and career goals; to develop the ability to evaluate options and make decisions; and to be aware of the available resources across campus that can support their efforts to gain admission to professional health sciences programs. Advisers also provide students with guidance on selecting a major, preparing for graduate admissions tests such as the MCAT and GRE, organizing letters of evaluation, and writing the personal statement for admissions applications.

POSTBACCALAUREATE PRE-MEDICAL PROGRAM

For students who already have a bachelor's degree but are lacking the specific science prerequisites for medical school, PSU offers a loosely structured postbaccalaureate program. The timeline for completion varies based on the individual student's previous preparation. At least two years is a common timeline for those without significant prior coursework in the sciences. The two year timeline allows for a balanced (though still challenging) schedule as well as more time to gain clinical exposure, demonstrate long-term service in the field, and include study time for the MCAT. Coursework may include year-long sequences in general chemistry, biology, organic chemistry, and physics, as well as single term courses in genetics and biochemistry. It is possible to further expedite the completion of pre-med courses with previous math coursework or utilizing summer accelerated sequences. Postbac students will work with their pre-med adviser to determine a course plan that works best with their goals.

The postbaccalaureate pre-medical program is not a certificate program. Many postbaccalaureate pre-medical students do, however, easily complete a degree in science (science is an interdisciplinary major at Portland State) while completing prerequisite coursework for medical school. Most students need only add two to three classes to the pre-medical coursework in order to finish the degree. Pursuing a second degree while working on pre-professional coursework often enables postbaccalaureate students to receive financial aid for a longer period of time. For more information, contact a health sciences adviser in the Health, Science, and Earth advising pathway.

POSTBACCALAUREATE PRE-DENTAL PROGRAM

For students who already have a bachelor's degree but are lacking the specific science prerequisites for dental school, PSU offers a loosely structured postbaccalaureate program. It typically takes postbaccalaureate students who are lacking all of the science prerequisites for dental school at least two years to complete the core coursework. Courses can be planned in a variety of ways. Postbaccalaureate pre-dental students should bring all previous college transcripts to an appointment with a health sciences adviser; after reviewing previous transcripts, the adviser will work with the student to develop a plan for completing the pre-dental coursework.

The postbaccalaureate pre-dental program is not a certificate program. Many postbaccalaureate pre-dental students do, however, easily complete a degree in science (science is an interdisciplinary major at Portland State) while completing prerequisite coursework for dental school. Pursuing a second degree while working on pre-professional coursework often enables postbaccalaureate students to receive financial aid for a longer period of time.

For more information, contact an advisor in the Health, Science, and the Earth pathway.

K-12 Teacher Preparation

Portland State University educates prospective K-12 teachers in the Graduate School of Education, through the Graduate Teacher Education Program (GTEP) and the Special Educator Program (SPED). Both GTEP and SPED are split into separate tracks to emphasize either elementary (K-5) or secondary (middle/high school) education, and both result in a master's degree (Master of Education or Master of Special Education) and an initial teaching license.

Undergraduates at Portland State University may prepare for competitive admissions by consulting with appropriate advisers, by achieving high academic standards in the recommended and required courses for specialization, and in courses in liberal arts, and by documenting successful experience with children in public schools. Passing scores on teacher exams mandated by the Oregon Teachers Standards and Practices Commission (TSPC) are also required for entry into the GTEP.

PRE-EDUCATION UNDERGRADUATE ADVISING

503-725-3822, SMSU M305

Adviser: N. Rochester

CHILD, YOUTH, AND FAMILY STUDIES MAJOR

503-725-4712, Child, Youth, and Family Studies Program, School of Social Work, Academic and Student Recreation Center, Suite 600

Advisers: K. Constable and C. Campbell (for Pre-Education undergraduates majoring in Child and Family Studies)

EARLY CHILDHOOD AND ELEMENTARY EDUCATION

Students who want to be elementary teachers choose from a wide range of majors to complete their undergraduate degrees. Pre-Education advisers have traditionally recommend interdisciplinary majors – such as Arts and Letters, Social Science, General Science, and Liberal studies – because they can include multiple subjects that are highly relevant to the elementary curriculum. However, specific disciplinary majors can also be fitting for the goal of progressing into GTEP. Such disciplines include (but are not limited to) English or History (especially those wishing to teach at the upper elementary level),

Psychology, and Child, Youth, and Family Studies. Prospective elementary teachers should consult with a Pre-Education Adviser in the advising office, located in Smith Memorial Student Union, mezzanine level, room M305 (503-725-3822).

SECONDARY (MIDDLE/HIGH SCHOOL) EDUCATION

Prospective middle and high school teachers may receive general introductory pre-professional advising with a Pre-Education Adviser; however, subsequent advising for pre-secondary education should be with the academic adviser for the secondary education content area they wish to teach. These specialized advisers are familiar with all GTEP admission requirements for their respective content areas, and the Graduate School of Education relies on their recommendations to determine whether an applicant has sufficient understanding of the subject matter they wish to teach.

Academic majors and their respective secondary endorsements are as follows: biology (biology and general science); physical education (physical education); history, anthropology, sociology, philosophy, political science, geography, and economics (social studies); health (health); mathematics (mathematics); English (English language arts); art (art); world languages and literatures (foreign language); music (music); chemistry (chemistry); physics (physics); business and economics (business); drama (drama); speech (speech).

Additional information is available online, or by contacting GTEP admissions at (503) 725-4753.

SPECIAL EDUCATION

All prospective special educators, whether they wish to teach special education at the elementary or secondary level, should consult with a pre-education adviser in Smith Memorial Student Union, mezzanine level, room M305 (503-725-3822). Students who are interested in teaching special education at the secondary level as well as teaching a specific subject in their middle or high school should also meet with the content area adviser for that subject (see above).

GRADUATE TEACHER EDUCATION PROGRAM

Any current or prospective PSU Students who are considering application to GTEP at PSU should attend one of the Graduate School of Education's regularly held information sessions for prospective applicants. A current schedule of upcoming information sessions is available online, along with an online form to register to attend a specific session. For additional information, please contact the Graduate School of Education (gseinfo@pdx.edu; 503-725-4619), or stop by their information desk on the second floor of the Fourth Avenue Building (1900 SW 4th Ave).

PREPARATORY COURSEWORK

Early childhood and elementary educators:

Required:

Lib 428	Children's Literature, K-5	3
Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4
Mth 213	Foundations Of Elementary Mathematics III	4

Recommended:

Art 312	Art in the Elementary School	4
CI 432	Computer Applications for the Classroom	3
Ed 420	Introduction to Education and Society	4
Mus 381	Music for Elementary Teachers	4
Psy 311U	Human Development	4
SpEd 418	Survey of Exceptional Learners	3

(please see the Minor in Elementary Education)

Middle, junior, and high school educators:

In addition to a strong liberal arts education, all students should complete the requirements for their major in the endorsement area of their choice.

Required:

Psy 311U	Human Development	4
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Recommended:

Psy 311U	Human Development	4
CI 432	Computer Applications for the Classroom	3
Ed 420	Introduction to Education and Society	4

INTEGRATED SCIENCE

Advisers: Dr. Nancy Price, Geology

The integrated science endorsement is valid for teaching middle school, intermediate school, high school integrated science, or high school earth science. See the other secondary endorsements for a high school biology, chemistry, or physics content focus. Coursework highlighted here is beneficial preparation for those intending to teach in states that have adopted the Next Generation Science Standards (Oregon included). Students who wish to obtain the integrated science endorsement under an interdisciplinary general science major should be aware that the integrated science endorsement requires additional science courses beyond the coursework required for a major in general science. Courses pertaining to all of the Earth/Space, Life, and Physical Science Content Standards are required. Guidelines for a course of study for the integrated science endorsement include the following.

Science Requirements

Earth/Space Content Area: (20 credits)

Lower division geology with labs/field studies	8
Upper-division earth science courses	12

Upper-division earth science courses: distributed among geology, paleontology, geomorphology, oceanography, hydrology, weather and climate, planetary science, astronomy.

Life Science Content Area: (15 credits)

Bi 211	Principles of Biology: Molecular Cell Biology & Genetics	4
Bi 212	Principles of Biology: Development, Evolution & Ecology	4
Bi 213	Principles of Biology: Organisms, Biodiversity & Conservation	4

with required 1-credit labs (Bi 214, Bi 215, and Bi 216).

Physical Science Content Area: (15 credits)

200-level General Physics or General Chemistry	15
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with labs

Upper Division Science Electives (20 credits)

Upper-division electives	20
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Upper-level division electives in Earth/Space, Life Science, and/or Physical Science Content areas: May be completed in one department. Minimum of 20 UD electives with science (chemistry, physics, geology, biology, environmental science) or math prerequisites.

Mathematics and Statistics Content Area: (12 credits)

Stat 243	Introduction to Probability and Statistics I	4
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Eight credits from:

Mth 111	Introductory College Mathematics I	4
Mth 112	Introductory College Mathematics II	4
Mth 251	Calculus I	4
Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4
Mth 213	Foundations Of Elementary Mathematics III	4

Subtotal: 82

BASIC SOCIAL STUDIES

Advisers: J. Rousseau

Students who major in social science (or in anthropology, economics, geography, history, political science, psychology, or sociology) and wish to teach social studies in secondary schools are recommended to include the following courses in their undergraduate program:

Student must complete a minimum of 12 credits each in History and Geography and 8 credits each in Economics and Political Science to receive a departmental recommendation to the GTEP. For further guidance please contact the adviser listed above.

Courses are to be taken for differentiated grades. Students must have at least a 3.00 GPA in the recommended courses and must earn at least a B- in each course.

Equivalent courses sometimes are accepted in substitution for certain of those specified, upon prior approval of the social studies secondary adviser.

Education Minors

For more information about any of the education minors, contact Pre-teacher Education Adviser, SMSU M305, askclas@pdx.edu.

ELEMENTARY EDUCATION MINOR

The Minor in Elementary Education is intended for students who plan to enter a graduate teacher education program and be licensed in Early Childhood/Elementary Education. While the minor is not a requirement for admission to the PSU Graduate Teacher Education Program (GTEP), it does include all the prerequisites for admission to the program. Students seeking a license for early childhood and elementary education must complete a graduate-level licensure program. The Graduate School of Education provides the teacher licensure as part of the GTEP.

REQUIREMENTS

Language Arts (7 credits)

Lib 428	Children's Literature, K-5	3
Ling 233	Language and Mind	4

Sciences (8 credits)

G 355	Earth and Space Sciences for Elementary Educators	4
Sci 311U	Teaching Everyday Science	4

Math (12 credits)

Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4

Mth 213	Foundations Of Elementary Mathematics III	4
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Education (7 credits)

Ed 420	Introduction to Education and Society	4
SpEd 418	Survey of Exceptional Learners	3

Social Studies (8 credits)

Psy 311U	Human Development	4
Soc 337U	Minorities	4

Fine and Performing Arts (8 credits)

Art 312	Art in the Elementary School	4
Mus 381	Music for Elementary Teachers	4

Health (4 credits)

PHE 250	Our Community: Our Health	4
	or	
PHE 365	Health Promotion Programs for Children and Youth	4

Subtotal: 54

The total may vary depending on the transfer of community college equivalent courses which carry, in some cases, fewer credits. A minimum of 18 credits must be upper-division. Only grades of C- or above may be counted toward these requirements. Students must take all coursework for differentiated grades. At least 16 credits must be in residence at PSU. A minimum cumulative GPA of 2.5 in coursework is required.

ELEMENTARY EDUCATION SCIENCE MINOR

The Minor in Elementary Education Science is intended for students who plan to enter a graduate teacher education program and be licensed in Early Childhood/Elementary Education. While the minor is not a requirement for admission to the PSU Graduate Teacher Education Program (GTEP), it does include all the prerequisites for admission to the program. Students seeking a license for early childhood and elementary education must complete a graduate-level licensure program. The Graduate School of Education provides the teacher licensure as part of the GTEP.

REQUIREMENTS

Minor Concentration Options

Choose 2 courses from one concentration.

Anthropology

Anth 101	Introduction to Biological Anthropology	4
Anth 102	Introduction to Archaeology	4

Biology

Bi 201	Fundamentals of Biology: Cells, Genes and Heredity	3
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Bi 204	With Fundamentals of Biology Laboratory: Cells, Genes and Heredity	1
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Sci 343U	Columbia Basin Plant Communities	4
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Bi 201 and Bi 204 are required for this option.

Chemistry

Ch 104	Introductory Chemistry I With	4
Ch 107	Introductory Chemistry Laboratory I	1

Sci 335U	Water in the Environment I or	4
Sci 336U	Water in the Environment II	4

Ch 104 and Ch 107 are required for this option.

Geography

Geog 210	Physical Geography	4
Geog 311U	Climatology	4
Geog 314U	Severe Weather	4
Geog 345U	Resource Management	4
Geog 368U	United States and Canada	4

Geog 210 is required for this option.

Geology

G 201	Dynamic Earth: Interior With	3
G 204	Geology Laboratory	1
G 341U	Geology of the Oregon Country	4
G 344U	Geology and the National Parks	4
G 355	Earth and Space Sciences for Elementary Educators	4
G 430	Life of the Past	4

G 355 is required for this option.

Physics

Ph 101	Essentials of Physics	4
Ph 102	Essentials of Physics	4
Ph 361U/Sci 315U	General Astronomy I	4
Sci 316U/Ph 362U	General Astronomy II	4

Ph 101 is required for this option.

Core Courses

Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4

Mth 213	Foundations Of Elementary Mathematics III	4
Sci 201	Natural Science Inquiry	4
UnST 286	or Natural Science Inquiry	4
Sci 311U	Teaching Everyday Science	4
UnSt 421	Capstone	1-6
Lib 428	Children's Literature, K-5	3
	Two classes from a concentration listed below	8-9

Subtotal: 37-38

SECONDARY EDUCATION MINOR

The Minor in Secondary Education is intended for students who plan to enter a graduate teacher education program and be licensed in Secondary Education. While the minor is not a requirement for admission to the PSU Graduate Teacher Education Program (GTEP), it does include the prerequisites and highly recommended courses for admission to the program. Students must also complete the content courses required by the department for the subject they plan to teach to apply to GTEP. Students seeking a license for secondary education must complete a graduate-level licensure program. The Graduate School of Education provides the teacher licensure as part of the GTEP.

REQUIREMENTS

Core Courses

Ed 420	Introduction to Education and Society	4
CI 432	Computer Applications for the Classroom	3
Psy 311U	Human Development	4
Soc 337U	Minorities	4
SpEd 418	Survey of Exceptional Learners	3

Electives (7-10 credits):

(choose 2 classes)

Anth 315U	American Culture	4
	or	
BSt 302U	African American Experience in the 20th Century	4
	or	
ChLa 301U	Chicano/Latino Communities	4
CFS 385U	Working with Diverse Families	4
	or	
CFS 390U	Sex and the Family	4
Lib 429	Young Adult Literature	3
Phl 331U	Philosophy of Education	4
Psy 345	Motivation	4
	or	
Psy 346	Learning	4

SpEd 460	Outdoor Education/Recreation With Persons With Disabilities	6
WS 301	Gender and Critical Inquiry	4
WS 360U	Introduction to Queer Studies Or adviser approved elective	4

Subtotal: 25-28

The total may vary depending on the transfer of community college equivalent courses which carry, in some cases, fewer credits. A minimum of 18 credits must be upper-division. Only grades of C- or above may be counted toward these requirements. Students must take all coursework for differentiated grades. At least 16 credits must be in residence at PSU. A minimum cumulative GPA of 2.5 in coursework is required. Students must also complete the required content courses for the subject they plan to teach to apply to GTEP.

SPECIAL EDUCATION MINOR

The Minor in Special Education is intended for students who plan to enter a graduate teacher education program and be licensed to teach Special Education. While the minor is not a requirement for admission to the PSU Graduate School of Education, Special Education Program (SPED), it does include all the prerequisites and highly recommended courses for admission to the program. Students seeking a license for teaching special education must complete a graduate-level program. The Graduate School of Education recommends students for teacher licensure at the completion of the Special Education Program.

REQUIREMENTS

Core Courses

Psy 311U	Human Development	4
Mth 211	Foundations Of Elementary Mathematics I	4
Mth 212	Foundations Of Elementary Mathematics II	4
Mth 213	Foundations Of Elementary Mathematics III	4
CI 432	Computer Applications for the Classroom	3
Ed 420	Introduction to Education and Society	4
SpEd 410	Historical and Contemporary Issues in Disability Studies	3
SpEd 417	Introduction to Special Education	4
SpEd 418	Survey of Exceptional Learners	3
SpEd 460	Outdoor Education/Recreation With Persons With Disabilities	6

Elective (choose one class): (2-4 credits)

G 355	Earth and Space Sciences for Elementary Educators	4
Psy 460	Child Psychology	4
Psy 461U	Psychology of Adolescence and Early Maturity	4
Sci 311U	Teaching Everyday Science	4
SpEd 455	Working With LEP Children Who Have Special Needs	2
SpHr 365U	Survey of Speech, Language, and Hearing Disorders	4
SpHr 372U	Speech and Language Development in Children	4

Subtotal: 41-43

The total may vary depending on the transfer of community college equivalent courses which carry, in some cases, fewer credits. A minimum of 18 credits must be upper-division. Only grades of C- or above may be counted toward these requirements. Students must take all coursework for differentiated grades. At least 16 credits must be in residence at PSU. A minimum cumulative GPA of 2.5 in coursework is required.

Pre-Law Preparation

Pre-Law Preparation

For Liberal Arts and Sciences students:

Tim Garrison, History, 503-725-3978,
timgarrison@pdx.edu

R. Kevin Hill, Philosophy, 503-725-3594,
hillrk@pdx.edu

For Urban and Public Affairs students:

Chris Shortell, Political Science, 503-725-3920,
shortell@pdx.edu

Law schools in the United States, unlike medical, dental, and other professional schools, generally do not require specific pre-law majors or particular courses of study in preparation for law school. Pre-law students are generally free to select their own undergraduate programs (there is no "pre-law" major as such), but they are advised to choose broad cultural fields in which they have keen intellectual interests, such as economics, history, literature, mathematics, philosophy, political science, science, or sociology, to suggest only some examples. Business administration and criminology and criminal justice, when strongly supplemented with work in arts and letters, science, or social science, are also suitable. Law schools do recommend that the prospective law student acquire a broad liberal education providing a sound basic understanding and appreciation of arts and letters, science, and social science.

All three Oregon law schools, Lewis & Clark, Willamette, and the University of Oregon, and the major law schools in

other states, now require that applicants for admission have a bachelor's degree. Valuable information about pre-law study and law school admissions can be found on the Pre-Law Advisement page at <http://www.pdx.edu/hatfieldschool/pre-law-advising> and through the Law School Admission Council's website at <http://www.lsac.org>.

3+3 Accelerated Baccalaureate and Juris Doctor Agreements

PSU maintains 3+3 Accelerated Baccalaureate and Juris Doctor agreements with Lewis and Clark Law School and Willamette University College of Law. These programs are restricted to certain undergraduate majors and allow for a student to complete a B.S. or B.A. degree at PSU and a law degree in six years. For more information on this program, contact Tim Garrison at timgarrison@pdx.edu.

Preparing for Law School

Students are cautioned not to have a large number of ungraded or pass/no pass credits. Law schools also advise against concentration in courses given primarily as vocational training. Whatever the undergraduate program, pre-law students should develop as fully as possible the ability to read with understanding, to think logically, and to express themselves clearly and cogently in written and oral work. The importance of analytical skills in dealing with concepts, abstract ideas, and complex fact situations, and of communications skills, cannot be overemphasized, for lawyers must be able to research, analyze, and communicate.

And since law is a part of the larger social order, the pre-law student should seek to understand the political, social, economic, and cultural institutions within which the legal system functions. As illustrative of specific subjects (with PSU course numbers) which may be helpful toward that end, the following are suggested with a reminder that they are not prerequisites for law school admission: introductory economics (Ec 201, Ec 202); ethics (Phl 308U, Phl 445, Phl 446, Phl 447); U.S. history (Hst 201, Hst 202, Hst 203); American constitutional history (Hst 447, Hst 448, Hst 449); political theory (PS 208, PS 483); constitutional interpretation, constitutional law, the judicial process (PS 221, PS 421, PS 422, PS 423, PS 424); criminology and criminal justice (CCJ 420, CCJ 440, CCJ 460 and CCJ 310); psychology (Psy 204); and general sociology (Soc 200). In addition, many law schools recommend taking a course in accounting principles. PSU does offer a Law & Legal Studies minor for those who wish to concentrate their study in the area of law, but should note that this is not required for admission to law school.

Completion of the Law School Admission Test (LSAT), administered nationally by the Law School Admission Council, is required by nearly all law schools. You can find information about the exam, and about the law school

admissions process, at www.lsac.org. The exam is offered four times each year, but should be taken at the earliest possible date in the student's senior year or as early as their late junior year. According to the Law School Admissions Council, the LSAT "is designed to measure skills that are considered essential for success in law school: the reading and comprehension of complex texts with accuracy and insight; the organization and management of information and the ability to draw reasonable inferences from it; the ability to think critically; and the analysis and evaluation of the reasoning and arguments of others." It does not test knowledge of specific subjects, and is in no sense a test of knowledge about law. There is no standard "passing score" on the test, for each law school makes its own evaluation of an applicant's admissibility, using the LSAT score, GPA (grade point average) and such other factors as it deems relevant.

Competition for admission to law schools can be very keen; thus high grade point averages and high LSAT scores are very desirable. Many law schools use the LSAT score and the GPA in computing a total numerical score which constitutes one important factor in determining admissibility. In such a computation a higher score on the LSAT can help to offset a lower GPA or vice versa. Although the LSAT may be repeated, it is generally advisable to prepare for the test as if it can only be taken once. Retakes should be reserved for situations where you are confident that you can increase your score. Information concerning the exact test dates is available from the Law School Admission Council's website. Students interested in attending law school are strongly encouraged to meet with one of the pre-law advisors listed above for more specific guidance about the application process.

Psychology

317 Cramer Hall (CH)
503-725-3923
www.pdx.edu/psy/

- B.A., B.S.
- Minor
- M.A., M.S.
- Ph.D. in Applied Psychology

Undergraduate programs

The program in psychology has been planned with the idea that all students, regardless of major, will have to solve significant psychological problems in their relations with others, at home and at work, in their personal decisions, and in their efforts to understand the problems and processes of society. The program serves students intending to do professional work in the field; liberal arts majors who are interested in psychology as part of a liberal arts education; and students of other social sciences or in a

professional field such as business, education, medicine, or the ministry who seek a working knowledge of psychological principles.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Psychology's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

PSYCHOLOGY B.A./B.S.

REQUIREMENTS

The major in psychology requires a minimum of 60 credits in the field. Students must complete the required courses in statistics before taking any 400-level course or any course with statistics as a prerequisite.

All students majoring in psychology, especially those that are considering graduate work in psychology, are encouraged to plan their program with an adviser from the Department of Psychology no later than the beginning of their first term of junior standing.

All psychology majors are strongly encouraged to participate in the advising process, which includes a Group Orientation session, peer mentoring, and faculty advising. Information about the psychology advising program is available on the Psychology Department website.

It is recommended that freshmen not enroll in psychology courses unless they have a B average (3.00 GPA) or above in high school.

In addition to meeting the general University degree requirements, the student must meet the following requirements for major:

Courses

Stat 243	Introduction to Probability and Statistics I	4
Stat 244	Introduction to Probability and Statistics II	4
Psy 200	Psychology as a Natural Science	4
Psy 204	Psychology as a Social Science	4
	Psychology elective 200-level or above (including 399-409)	4
Psy 321	Research Methods in Psychology	4
Psy 410-498		16

Additional upper division psychology courses (300-or 400-level, excluding 401-409)	20
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Subtotal: 60

All majors are encouraged to begin their work in statistics as soon as possible in preparation for Psy 321, which is a prerequisite for many of the upper-division courses. Besides taking courses in a range of subjects in psychology, majors are also encouraged to take courses in human diversity.

All courses submitted to satisfy the requirements for a major in psychology, including the mandatory math courses, must be passed with a grade of C- or above. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department major requirements.

Students considering graduate work in psychology should be especially well prepared in mathematics and should take experimental psychology (Psy 454). They should consider participating in research with a faculty member. They are encouraged to develop breadth by pursuing interests in diverse fields outside psychology before beginning the greater specialization of graduate work.

PSYCHOLOGY MINOR

REQUIREMENTS

To earn a minor in psychology a student must complete 28 credits (8 credits of which must be taken in residence at PSU), to include the following:

Courses

Psy 200	Psychology as a Natural Science	4
Psy 204	Psychology as a Social Science	4
	300- or 400-level psychology courses (excluding 401 to 409)	20

Subtotal: 28

All courses submitted to satisfy the requirements for a minor in psychology must be passed with a grade of C- or above. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department minor requirements.

PSYCHOLOGY SECONDARY EDUCATION PROGRAM

Adviser: E. Skinner

(See Interdisciplinary Studies: Social Science (p. 254))

Graduate programs

The Department of Psychology offers work leading to the degrees of Master of Arts and Master of Science. The department also offers a Ph.D. in Applied Psychology.

Graduate training in psychology at Portland State University provides a sound basis in traditional areas of psychology, while emphasizing applications of psychological theory and research to problems of contemporary society.

The program focus is on applied psychology with an emphasis on three areas: Applied Developmental, Industrial/ Organizational, and Applied Social/Community Psychology. The aim is to prepare graduates for research and service roles in a variety of settings such as government agencies, businesses, educational systems, and hospitals. It should be noted that the graduate program in psychology does not offer graduate degrees in clinical or counseling psychology.

ADMISSIONS REQUIREMENTS

Applications may be made to either the doctoral (Ph.D. in Applied Psychology) or the terminal master's degree (M.A. or M.S. in Psychology) programs. Those admitted to the master's program may later apply for admission to the doctoral program, conditional upon demonstrated competence at the master's level. Applicants to either program are expected to have had preparation in experimental psychology and methods of data collection and analysis, in addition to content areas in psychology. Admissions granted to applicants who do not meet these requirements may be conditional upon completing preparatory coursework.

Applicants should provide the following documents: Graduate Record Examination scores (i.e., GRE scores for verbal, quantitative, and analytic abilities); three letters of recommendation from individuals knowledgeable about the applicant's abilities (preferably from faculty members at colleges or universities attended); transcripts; and a 500- to 1000-word statement of academic and personal goals. The psychology subject test of the GRE is not required. Completed applications should be received by December 15 for admission the following academic year.

PSYCHOLOGY M.A./M.S.

Candidates for the master's degree must earn a minimum of 54 credits, including thesis, in approved graduate courses, forty of which must be earned in psychology. Proficiency in a foreign language is required for the Master of Arts degree, but not for the Master of Science degree. Students' individual programs are determined in consultation with their advisers.

REQUIREMENTS

The required coursework for the master's program is as follows:

Courses

Psy 521	Univariate Quantitative Methods	5
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Psy 522	Multiple Regression and Multivariate Quantitative Methods	5
Psy 514	Advanced Applied Social Psychology	4
Psy 515	Advanced Applied Developmental Psychology	4
Psy 516	Advanced Organizational Psychology	4
	Electives	24
Psy 503	Thesis	8

Thesis

The student must submit and defend the thesis at an oral examination.

Subtotal: 54

APPLIED PSYCHOLOGY PH.D.

Candidates for the Ph.D. in applied psychology must earn a minimum of 108 credits in approved graduate courses. Candidates will undertake a program of study determined in consultation with an advisory committee. The doctoral program is equivalent to the two-year master's program described above plus additional required courses in research design, methodology, and ethics.

REQUIREMENTS

The required coursework for the Ph.D. program, including the equivalent to the two-year master's program, is as follows:

Courses

Psy 621	Univariate Quantitative Methods	5
Psy 622	Multiple Regression and Multivariate Quantitative Methods	5
Psy 624	Research Design in Applied Psychology	4
Psy 6xx	Required methodology elective	4
Psy 614	Advanced Applied Social Psychology	4
Psy 615	Advanced Applied Developmental Psychology	4
Psy 616	Advanced Organizational Psychology	4
Psy 618	Ethics and Professional Issues in Applied Research and Practice	4
6XX	Electives in Applied Social and Community Psychology	12
	or	
6XX	Electives in Developmental Psychology	12
	or	

6XX	Electives in Industrial/Organizational Psychology	12
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6XX	Additional Electives	27
Psy 503	Thesis	8
Psy 603	Dissertation	27

Psy 621, Psy 622, Psy 624: passing grade of B+ or higher required

Subtotal: 108

Comprehensive examination: The comprehensive exam is comprised of exams in the major area and the minor area.

Dissertation: The student must submit and defend the dissertation at an oral examination.

The details of all requirements are outlined in the Graduate Student Handbook which can be found on the graduate page of the department website at www.pdx.edu/psy.

Science in the Liberal Arts

218 Science Research and Teaching Center (SRTC)
503-725-4982
www.pdx.edu/esm/

Undergraduate Program

Science in the Liberal Arts is a set of undergraduate level course offering. These courses emphasize general scientific inquiry, focusing on the ongoing process of active discovery, and the analysis of science-related political, economic, social, and ethical topics. By providing an in-depth tutorial in the building blocks of scientific inquiry—the formation of thought, the process of problem-solving, and the active engagement of debate—Science in the Liberal Arts provides teachers and students with the tools necessary to work in more specialized fields of science.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Science in the Liberal Arts' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

Sociology

217 Cramer Hall (CH)
503-725-3926
www.pdx.edu/sociology/

- B.A., B.S.
- Minor

- M.A., M.S.
- Ph.D.
- Ph.D.—Participating department in Urban Studies Doctoral Program

Undergraduate programs

Sociology is the study of society and human interaction. Sociologists examine groups of as small as two or as large as billions. From the smallest friendship or family group to the great global web of human activity, sociologists analyze and interpret our world.

Sociologists use many theoretical approaches, data, and research techniques. Information comes from many sources including surveys, historical documents, census data, intensive interviews, and participant observation. This information is analyzed and used to explain phenomena such as power relations, beliefs and value systems, organizations, and the larger structure of society.

Sociology provides valuable tools for thought and a strong foundation for careers in many fields including education, business, journalism, government, and social service. A major in sociology prepares students for graduate programs leading to careers in research, public service, and higher education. Sociological knowledge helps create informed and thoughtful citizens.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Sociology's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

SOCIOLOGY B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, the sociology major is required to take a minimum of 49 credits in sociology courses (including 28 credits in electives in the field) and the mathematics course in statistical methods.

Courses

Soc 200	Introduction to Sociology	4
Soc 301	Classical Sociological Theory	4
Soc 302	Contemporary Sociological Theory	4

Soc 397	Social Research Methods	5
Soc 398	Sociology Research Project	4
	Sociology electives, including at least 12 credits in 400-level courses	28
Stat 243	Introduction to Probability and Statistics I	4

Up to 10 credits of electives taken under the undifferentiated grading option (pass/no pass) in 200- or 300-level sociology courses can be applied toward fulfilling departmental major requirements. Differentiated grades of C or above are required for all other sociology courses and for Stat 243. A student must pass Soc 301 and Soc 302 with a grade of C or better before taking other required courses as a sociology major.
Subtotal: 53

SOCIOLOGY MINOR

To earn a minor in sociology a student must complete 28 credits (16 credits of which must be taken in residence at PSU, and 16 credits of which must be upper-division), to include the following:

REQUIREMENTS

Courses

Soc 200	Introduction to Sociology	4
	Upper-division sociology credits inclusive	24

Upper-division sociology credits: 12 credits of which must be at the 400-level.

Up to 10 credits taken under the undifferentiated grading option (pass/no pass) can be applied toward fulfilling departmental minor requirements.
Subtotal: 28

SOCIOLOGY SECONDARY EDUCATION PROGRAM

(See Interdisciplinary Studies: Social Science (p. 254)).

Graduate programs

The department of Sociology offers work leading to the degrees of Master of Arts (M.A.) and Master of Science (M.S.), as well as the Doctor of Philosophy (Ph.D.). Students with a Bachelor's degree can enter the graduate program to earn a terminal Master's degree or, with approval, continue on after receiving a Master's degree to complete a Ph.D. degree. Students with Master's degrees from other programs and/or universities can apply to enter the graduate program at the Ph.D. level.

Graduate training in Sociology prioritizes community engagement and policy-relevant research focused on

improving people's daily lives and society more broadly. Students focus on the integration of theory with a variety of quantitative and qualitative methodological approaches to study the dynamics of human behavior and social interaction in substantive areas including health and medical sociology, environmental sociology, education, criminology, class/stratification, race/ethnicity, urban sociology, social movements, family, gender, and sexualities. The program aims to prepare graduates for research and service positions in government, the non-profit sector, private industry, and the academy.

(p. 374)

ADMISSIONS REQUIREMENTS

Students must be admitted to the master's and Ph.D. programs by the department and by the University. Admission ordinarily is granted only to those students beginning the program in the Fall term. Students are expected to move through the core courses as a cohort and work together with the faculty in a team environment.

In addition to the general University admission requirements for advanced degrees, the applicant for a sociology master's or Ph.D. degree program must have the following materials to submit as part of a complete application:

- Sociology online application.
- Three letters of recommendation from persons familiar with the applicant's academic performance.
- Unofficial transcripts from all post-secondary institutions attended for evaluation purposes. Official transcripts will be requested once admitted.
- Graduate Record Examination scores—General.
- A letter of application describing his or her sociological interests.
- A writing sample.
- A resume, or Curriculum Vita.

Applicants for the graduate degree are normally expected to have a bachelor's degree in Sociology. Students with other undergraduate majors may be accepted; however, they must have completed courses in sociological theory, research methods, and statistics, or their equivalents.

Students applying for the Ph.D. program must have completed a master's degree (e.g., MA/MS/MPA/MPH/MSW) prior to starting the program. If the master's degree is not in sociology, additional sociology coursework may be required (see degree requirements section (p. 50)).

DEGREE REQUIREMENTS

See University master's degree requirements (p. 51).
Specific departmental requirements are listed below.

SOCIOLOGY M.A./M.S.

The candidate must complete a minimum of 54 graduate credits, including 22 credits in core sociology courses, 24 credits of electives (12 of which may be in departments other than sociology), and 8 credits of thesis. Elective courses outside sociology must be approved by the student's adviser. The student must pass an oral defense of the thesis.

REQUIREMENTS

Students working for the Master of Arts degree must satisfy the language requirement.

Core

Soc 590	Social Research Strategies	4
Soc 591	Theoretical Perspectives in Sociology	4
Soc 592	Qualitative Methods	4
Soc 593	Quantitative Methods	4
Soc 507/607	Proseminar	1

Soc 507: (Course must be taken six times)

Thesis

Soc 503	Thesis	8
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Soc 503: (completed over three terms)

Electives

Soc	Three graduate-level sociology courses	12
	Sociology or other department	12

Elective courses outside sociology must be approved by the student's adviser

SOCIOLOGY PH.D.

Candidates for the Ph.D. in Sociology must earn a minimum of 54 hours in graduate coursework including 15 credits in core sociology courses, 12 elective credits (8 may be taken in other departments), and 27 dissertation credits.

REQUIREMENTS

Core

Soc 607	Professional Seminar	3
Soc 695	Advanced Quantitative Methods	4
Soc 637	Qualitative Data Analysis	4

Sociology Elective in Inequality

One 600-level Sociology elective in inequality (4 credits)

Soc 628	Gender Inequality	4
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Soc 665	Environmental Sociology	4
Soc 684	Social Inequality	4
Soc 685	Medical Sociology	4
Soc 686	Topics in Health and Inequality	4
Soc 687	International Health Inequalities	4
Soc 688	Social Sustainability Theory and Practice	4
Soc 698	Globalization Seminar	4

Subtotal: 15

An alternative sociology elective in inequality may be counted with approval of the department.

Electives

Four additional 500 or 600 level elective courses (at least 4 credits must be in sociology courses)

Subtotal: 12

Dissertation

(includes proposal, research project and comprehensive exam)

Soc 603	Dissertation	27
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Subtotal: 27

Subtotal: 54

All candidates for the Ph.D. in Sociology must complete a minimum of 81 credits beyond the bachelor's degree.

Speech and Hearing Sciences

430 University Center Building (UCB)
503-725-3533
www.pdx.edu/sphr/

- B.A., B.S.
- M.A., M.S.

The Department of Speech and Hearing Sciences offers courses and clinical experiences designed to meet the needs of individuals pursuing careers in speech-language pathology, audiology, and the speech, language, and hearing sciences. Advanced degree holders in these fields provide services to people with speech, language or hearing challenges in medical and educational settings, community clinics, and private practices. The department offers an undergraduate and master's degree program in speech and hearing sciences. The master's degree program is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA).

Undergraduate programs

As an undergraduate in the Speech and Hearing Sciences Department, you will explore the diversity of human communication, which includes typical and atypical communication, development, and acquired communication disorders. The program leads to a B.S. or

B.A. in Speech and Hearing Sciences with a primary focus on typical processes of speech, language, and hearing and upper-level coursework introducing communication disorders in children and adults. In addition to providing a solid liberal arts education, this degree provides a foundation for many career paths, including graduate work in speech-language pathology, audiology, and/or speech, language, and/or hearing research. Because communication is central to most human activities, a degree in Speech and Hearing Sciences also can lead to a career in many other fields, including Special Education, Counseling, and Community Relations. Coursework or a degree in Speech and Hearing Sciences complements degrees in other programs, such as education, linguistics, psychology, public health administration, social work, music, and allied health professions.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Speech and Hearing Sciences' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

SPEECH AND HEARING SCIENCES B.S./B.A.

REQUIREMENTS

In addition to meeting the general University degree requirements, the speech and hearing sciences major must meet the minimum departmental requirements as follows: all Core Courses, 8 credits of SpHr electives, and 4 credits of Stat 244 or equivalent course covering basic statistical reasoning for the social sciences. Preparatory Core Courses should precede Advanced Core Courses.

In addition, students are strongly encouraged to gain proficiency in a second language. Students planning to pursue graduate study should complete one or more courses in each of the following areas: statistics (a stand alone statistics course), biological science, physical sciences (Physics or Chemistry), and social/ behavioral sciences (see current ASHA Certification Standards). It is strongly recommended that these courses are taken prior to taking Advanced Core Courses. A grade of C or above is required for all major requirements.

Foundational Core Courses (28 credits)

SpHr 222	Introduction to Speech, Language & Hearing Sciences	4
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SpHr 370	Phonetics and Acoustics	4
SpHr 371	Anatomy and Physiology of Speech and Swallowing	4
SpHr 372U	Speech and Language Development in Children	4
SpHr 461	Neurology of Speech and Hearing	4
SpHr 487	Hearing Sciences	4
SpHr 465	Introduction to Research Methods for Clinical Scientists	4

Clinical Core Courses (25 credits)

SpHr 394	Guided Observation	1
SpHr 380	Language Disorders in Children	4
SpHr 464	Speech Disorders in Children	4
SpHr 488	Clinical Audiology	4
SpHr 489	Aural Rehabilitation	4
SpHr 495	Neurogenic Communication Disorders	4
SpHr 496	Introduction to Clinical Management	4

Elective Courses (choose 8 credits)

SpHr 385	Autism Spectrum Disorders	4
SpHr 471	Neurolinguistics	4
SpHr 480	Introduction to Sociocultural Aspects of Interactions	4
SpHr 410	Selected Topics	0-12

Graduate program

The department offers a program leading to the Master of Arts or Master of Science degrees with specialization in speech-language pathology. The Council for Accreditation of Academic Programs (CAA) of the American Speech-Language-Hearing Association accredits the SPHR graduate program. Graduates of the program meet the requirements for clinical certification of the CAA and are eligible for licensure as speech-language pathologists by the state of Oregon.

The graduate curriculum includes courses aimed at providing students with a solid understanding of the nature of speech, language, communication, and swallowing disorders as well as the prevention, assessment, and treatment of those disorders. A second major component of the program consists of supervised clinical practica in which students work directly with individuals who have communication *and* swallowing disorders. This type of activity enables students to apply knowledge gained in the classroom and acquire requisite professional skills with clients across the lifespan. Students obtain practical experience through clinics on campus and in a broad range of off-campus community placements, including medical and educational settings and community clinics.

ADMISSION REQUIREMENTS

In addition to the University requirements for admission to graduate programs (p. 41), candidates for the Master's degree program in speech-language pathology must have a background of undergraduate courses in speech and hearing sciences and related disciplines. The following courses (or their equivalents) are required prerequisites:

PREREQUISITES

Courses

SpHr 370	Phonetics and Acoustics	4
SpHr 371	Anatomy and Physiology of Speech and Swallowing	4
SpHr 372U	Speech and Language Development in Children	4
SpHr 461	Neurology of Speech and Hearing	4
SpHr 487	Hearing Sciences	4
SpHr 488	Clinical Audiology	4
SpHr 489	Aural Rehabilitation	4
Stat 243	Introduction to Probability and Statistics I	4
	And	
Stat 244	Introduction to Probability and Statistics II	4

These prerequisites can be met by completing a Bachelor's degree in Speech and Hearing Sciences at Portland State University or elsewhere. Individuals with Bachelor's degrees in other disciplines may complete prerequisite courses by enrolling in the Department as a post-baccalaureate student.

STRONGLY RECOMMENDED - NOTE: THE FOLLOWING ARE LISTED ON THE UNDERGRADUATE DEGREE PROGRAM, NOT THE POSTBACCALAUREATE PROGRAM

The following courses are strongly recommended:

Courses

SpHr 380	Language Disorders in Children	4
SpHr 464	Speech Disorders in Children	4
SpHr 495	Neurogenic Communication Disorders	4
SpHr 496	Introduction to Clinical Management	4

All students applying for admission to the Master's degree program should also have successfully completed one or more courses in each of the following areas: statistics (a stand alone Statistics course), biological science, physical sciences (Physics or Chemistry), and social/behavioral sciences (see current ASHA Certification Standards).

Students may apply for admission to the master's degree program while in the process of completing their Bachelor's degree or post-baccalaureate coursework.

Completion of the prerequisite courses does not guarantee admission into the program.

Application procedure

Candidates applying for admission to the graduate program in Speech and Hearing Sciences must submit application packets to both the Department and the PSU Admissions Office, as outlined in Master of Arts and Master of Science (M.A. and M.S.). All applicants should review the required essential functions to practice as a speech-language pathologist (see www.pdx.edu/sphr/essential-functions). Specific requirements of the Department include:

1. Three letters of reference completed by individuals closely acquainted with the applicant's academic or employment background. We recommend at least two letters address academic abilities and potential to succeed in the graduate program.
2. Official transcripts from all colleges and universities attended.
3. Official scores of the Graduate Record Examination (GRE).
4. A written narrative (Personal Statement) outlining the candidate's academic background and professional goals.

Detailed information regarding the application process can be obtained from the Web site: www.pdx.edu/sphr.

Departmental conditional status

All students are admitted to the graduate program with conditional status. To be granted regular status and to be retained in the graduate program, students must complete 12 letter-graded graduate credit hours of coursework in speech and hearing sciences with a minimum GPA of 3.00 and attain at least a B- in each of two clinical practicum experiences with no academic, clinical, or professionalism remediation plans in place.

Cohorts

The Department will admit graduate students in two cohorts each academic year.

SPEECH AND HEARING SCIENCES M.A./M.S.

See University Master's degree requirements (p. 51). Specific departmental requirements are as follows:

REQUIREMENTS

1. Students must demonstrate the knowledge and skills required for the Certificate of Clinical Competence (CCC) from the Council for Clinical Certification (CFCC) of the American Speech-Language-Hearing Association.
2. Students must complete a minimum of 77 graduate credits: 50 credits of core coursework, 6 credits of at least 3 elective courses, 18 credits of practicum, and a minimum of 3 credits of a culminating experience.
3. Coursework. Students must complete 14 required core courses and three elective courses. A grade of B- or above must be obtained for each course.

CORE Courses (50 credits):

SpHr 530	Clinical Management in Communication Disorders	4
SpHr 540	Multicultural Topics in Communication Disorders	4
SpHr 545	Pathways to Professional Practice	2
SpHr 554	Advanced Speech Sound Disorders: Theories and Application	4
SpHr 558	Symbol Systems in Early Communication	2
SpHr 559	or Augmentative and Alternative Communication	2
SpHr 560	Research Methods in Communication Sciences and Disorders	4
SpHr 562	Cognitive Rehabilitation	4
SpHr 563	Adult Language Disorders	4
SpHr 566	Motor Speech Disorders	4
SpHr 581	Stuttering	3
SpHr 582	Voice Disorders	3
SpHr 584	Assessment and Treatment of Language Disorders: Birth to Age Five	4
SpHr 585	Assessment and Treatment of Language Disorders in School-aged Children and Adolescents	4

ELECTIVE Courses (choose three; 6 credits):

SpHr 541	Bilingual Topics in Communication Disorders	2
SpHr 546	Professional Ethics	2
SpHr 553	Counseling in Communication Disorders	2
SpHr 564	Medical Speech-Language Pathology I	2
SpHr 567	Cleft and Craniofacial Disorders	2
SpHr 571	Neurolinguistics	4

SpHr 586	Autism	2
SpHr 587	Advanced Topics in Literacy in Children with Language Impairments	2

Additional electives may be offered as SpHr 510 courses.

4. Clinical Practicum. Students must complete a minimum of 400 clock hours of supervised clinical experience in the practice of speech-language pathology to be eligible for professional certification. These include 25 hours of observation. In order to receive credit for clinical hours completed in a clinical practicum experience, the student must obtain a grade of B- or above in the course. Students will have the opportunity to satisfy this requirement by completing 18 required credits of SpHr 509 Practicum, which shall include PSU clinic experiences and two externships.
5. Culminating Experience. Students must complete one of the culminating experiences listed below. The decision as to which of these options to pursue is to be made in conjunction with the student's academic adviser.
 - a. Comprehensive Examination—The student must pass written comprehensive examinations. These are normally taken in the term preceding graduation, in the student's second year of graduate study. Specific details of the administration and scoring of the exams will follow current departmental guidelines. Students will register for 3 credits of SpHr 501 Research: Comprehensive Examination during the term in which they write the examination. This is the only graduate course offered on a Pass/No Pass basis.
 - b. Master's Project—The student will complete a scholarly project related to his or her academic discipline at the invitation of a faculty member. The student will comply with current departmental guidelines on the selection of the topic and format of the project. The project will be completed under the direction of a faculty member in the department of Speech and Hearing Sciences. Students pursuing this option are required to register for 3 credits of SpHr 506 Special Project with their project director. A letter grade of B- or above is required.
 - c. Master's Thesis—Students opting to complete a thesis at the invitation of a faculty member will follow the University guidelines for theses outlined in Thesis (p. 53). In addition to the written thesis, the student must pass a final oral examination before a committee consisting of at least three faculty members from the department of Speech and Hearing Sciences. Students pursuing this option are required to register for a minimum of 6 to 9 credits of SpHr 503 Thesis. A letter grade of B- or above is required.

Systems Science Program

Harder House
1604 SW 10th Avenue
503-725-2070
www.pdx.edu/sysc

SYSTEMS SCIENCE M.S.

Master of Science in Systems Science

Students choose a combination of systems science courses plus approved courses in associated disciplines. Topics and subject areas are the same as those for the PhD program (see below). Students learn a wide variety of systems ideas, use them for modeling and analysis in conjunction with ideas and methods from other disciplines, and gain expertise in problem solving and integrative thinking.

ADMISSION REQUIREMENTS

Students applying to the Masters program must submit the following for evaluation by the Systems Science Admissions Committee:

1. A completed Application to Graduate Program form,
2. Official or unofficial copies of academic transcripts from all colleges and universities attended,
3. Two letters of recommendation,
4. The student's personal statement, explaining the applicant's goals for the program, and
5. If applicant would be a foreign student, TOEFL score (or other suitable evidence of English competency).

DEGREE REQUIREMENTS

General requirements for master's degrees can be found at <http://pdx.smartcatalogiq.com/en/2014-2015/Bulletin/Graduate-Studies/Degree-requirements/Master-s-Degree>. Among the 45 hours required, 24 credits must come from letter-graded courses (pass/no pass are not applicable) listed under Systems Science in the PSU Bulletin numbered SySc 510-599 or SySc 610-699. The remaining 21 credits can be satisfied through one of three options:

1. Thesis Option: An additional 12 credits that can be letter-graded Systems Science courses (numbered as above), approved courses from other departments (see <http://www.pdx.edu/sysc/approved-courses-ms-sysc>), up to 3 credits of SySc 507 (Seminar) with a pass grade, and/or up to 4 Systems Science by-arrangement credits. The student must also complete 9 thesis credits and write a master's thesis. A student selecting the thesis option must form a thesis committee of at least three faculty members, including a core faculty member from Systems Science.

2. Examination Option: An additional 21 credits that can be Systems Science courses (numbered as above), up to 3 credits of SySc 507 (Seminar) with a pass grade, approved courses from other departments (see <http://www.pdx.edu/sysc/approved-courses-ms-sysc>), and/or up to 4 Systems Science by-arrangement credits. A student selecting the examination option will be required to pass two written comprehensive exams, each of which covers a minimum of 16 credit hours of coursework.

3. Coursework-Only Option: An additional 8 letter-graded Systems Science courses (numbered as above), plus 13 credits of courses that may be either Systems Science courses (numbered as above), approved courses from other departments (see <http://www.pdx.edu/sysc/approved-courses-ms-sysc>), up to 3 credits of SySc 507 (Seminar) with a pass grade, and/or up to 4 credits of Systems Science by-arrangement credits.

More detailed information is available in the Systems Science Graduate Student Handbook at <http://www.pdx.edu/sysc>.

SYSTEMS SCIENCE PH.D.

Doctor of Philosophy in Systems Science

The doctoral program emphasizes systems ideas and methods, more specifically systems thinking, system structure and dynamics, data modeling, computer simulation, networks, complex adaptive systems, and decision analysis. Subject areas include environmental systems, sustainability, energy, health policy, biomedicine, and other areas where systems ideas or methods make unique contributions to knowledge.

ADMISSION REQUIREMENTS

To apply to the doctoral program, applicants must submit the following for evaluation by the Systems Science Admissions Committee:

1. A completed Application to Graduate Program form,
2. Academic transcripts from each institution attended,
3. GRE scores,
4. Three letters of recommendation,
5. Personal statement explaining student's interests and goals, and
6. TOEFL score or other evidence of English competency if attending as foreign student.

DEGREE REQUIREMENTS

General requirements for doctoral degrees can be found at <http://pdx.smartcatalogiq.com/en/2014-2015/Bulletin/Graduate-Studies/Degree-requirements/Doctoral-Degree>. Additionally, Systems Science requires that students complete 84 graduate credit

hours, which can include up to 28 hours of graduate credits completed at other institutions. 48 credits must be completed prior to comprehensive exams; 9 additional credits are required prior to advancement to candidacy, and 27 dissertation credits are required prior to graduation. Students must take SySc 511 (Systems Theory) and SySc 513 (Problem Solving) as letter-graded courses, and must take 3 credits of SySc 507 (Seminar). The remaining 46 hours are completed via one of two options:

1. Core option. Students must complete an additional 24 credits of letter-graded Systems Science *labeled courses*. *The remaining 22 credits might be systems science labeled courses, by-arrangement credits, or courses from an outside discipline. The student's three comprehensive exams will cover 48 credit hours, including two SySc exam areas of at least 16 credits each, and one field exam area of at least 15 credits.*

2. Multidisciplinary option. Students must complete an additional 16 credits of letter-graded Systems Science labeled courses plus 15 or more credits from each of two outside and distinct disciplines. *The student's three comprehensive exams will cover 48 credit hours, including one SySc exam area of at least 16 credits, and two choice exam areas with at least 15 credits each.*

All doctoral students must pass all letter-graded courses with at least a B grade, and their cumulative GPA must be at least 3.25. Once a student has completed all of the coursework required for his or her comprehensive examinations, he or she forms a comprehensive examination committee with three members, including a core faculty member from Systems Science.

Comprehensive Examinations. Within two to three years after admission (five years maximum), doctoral students must pass their comprehensive exams consisting of three written exams and an oral exam by his or her comprehensive exam committee. For core option students, two exams will cover SYSC areas and one will cover a field area of the student's choice. For multidisciplinary option students, one exam will cover SYSC areas and two exams will cover field areas representing two distinct and different disciplines of the student's choice.

Advancement to Candidacy. After passing comprehensive exams, the student prepares a prospectus for dissertation research and recruits dissertation committee members under his or her adviser's supervision. An application is sent to the Office of Graduate Studies, who will officially appoint the committee. Once appointed, the chair of the committee becomes the student's adviser. The student then prepares a proposal for independent research that will result in a significant and original contribution to knowledge in the systems field. When the proposal is approved by the committee and the 57 credit hour requirement (including transfer credits) and all other conditions have been met (including IRB approval if human subjects are involved), the student is advanced to

candidacy. PSU requires students to be advanced to candidacy within 3 years of completing their comprehensive examinations.

Dissertation. Once the doctoral student has been advanced to candidacy, he or she completes the proposed dissertation work. Prior to their dissertation defense, doctoral students present their research at the Systems Science Seminar.

The candidate's final defense of his or her completed dissertation is a presentation open to the public. It must be completed by the end of the 6th week of a term, and no later than 5 years after the student's advancement and no later than 12 years after the student's admission. Typically, the dissertation is completed in one or two years after the proposal is approved. The formal defense is often preceded by a pre-defense meeting two weeks earlier, where the committee may recommend the candidate do more work before attempting the final formal defense.

Prior to graduation, students must register for 27 credits of dissertation research (SySc 603), 9 of which may be taken upon completion of comps; another 9 may be taken after the dissertation committee has been requested (with form GO-16D); the rest must be taken after the dissertation proposal has been approved. The student can anticipate approximately four to six years of full-time study beyond the baccalaureate degree in order to satisfy the program requirements. More detailed information is available in the Systems Science Graduate Student Handbook at <http://www.pdx.edu/sysc>.

SYSTEM SCIENCE GRADUATE CERTIFICATES

The Systems Science program offers graduate certificates in two specialty areas: computer modeling and simulation, and computational intelligence (currently under revision).

Admission requirements

Students admitted to the master's or doctoral program need not apply separately for admission to a graduate certificate. But to add the certificate to their master's or doctoral program they must submit the GO-19M or GO-19D form (see <http://www.pdx.edu/ogs/forms> to the Office of Graduate Studies at least one term before they apply for completion of the certificate.

Students not admitted to the doctoral or master's program must submit to Systems Science: (1) a completed Application to Graduate Program form, and (2) official or unofficial copies of academic transcripts from an institution. The admissions committee will recommend the student's admission if his or her academic transcript shows a completed undergraduate degree with a GPA of 2.75 or higher.

Certificate Requirements

General requirements for graduate certificates can be found at <http://pdx.smartcatalogiq.com/en/2014-2015/Bulletin/Graduate-Studies/Degree-requirements/Graduate-certificates>. Systems Science requires that students complete 16 credit hours of courses within the specialty area of their chosen certificate, including one required course. For the Computer Modeling and Simulation certificate, SySc 514 (System Dynamics) is the required course, and for the Computational Intelligence certificate, SySc 575 (Neural Networks I) is the required course. Students select three additional courses from those listed on the graduate certificate program page (<http://www.pdx.edu/sysc/program-systems-science-graduate-certificates>). One special topics course (SySc 510/610) for up to 4 credit hours may be approved for inclusion by the program chair.

Graduate certificate students must earn at least a B in all courses and their cumulative GPA must be at least 3.25. More detailed information is available in the Systems Science Graduate Student Handbook at <http://www.pdx.edu/sysc>.

SYSTEMS MINOR

A Minor in Systems is an ideal complement to majors in the Natural and Social Sciences, Philosophy, Mathematics, Computer Science, Engineering, Public Administration and Business, and to anyone with an interdisciplinary focus. Systems ideas deepen our understanding of complexity and offer general principles that are useful in every field. Applications include environmental, biomedical, and other social and technical problems. Systems thinking and methods of computer modeling and data analysis empower both practitioners and academics.

REQUIREMENTS (24 CREDITS)

Choose six from the following list:

At least two of the six required courses **MUST** be taken at the 400 level.

ESM 220	Introduction to Environmental Systems	4
ESM 221	Applied Environmental Studies: Problem Solving	4
Geog 345U	Resource Management	4
Geog 380U	Maps and Geographic Information	4
EAS 333U	Problems, Solutions, and Systems Thinking	4
Phl 322U	Minds and Machines	4
Sci 313U	Environmental Mathematical Modeling	4
SySc 330U	Models in Science	4
SySc 332U	Introduction to Agent-Based Modeling	4

SySc 334U	Modeling Social-Ecological Systems	4
SySc 336U	Networks and Society	4
SySc 338U	Decision Making in Complex Environments: A View Towards Collective Action and Social Change	4
SySc 340U	Big Data and the Modern World	4
SySc 346U/CS 346U	Exploring Complexity in Science and Technology	4
SySc 350U	Indigenous and Systems Perspectives on Sustainability	4
Phl 470	Philosophy of Science	4
SySc 411	Systems Theory	4
SySc 413	Holistic Strategies for Problem Solving	4
SySc 414	System Dynamics	4
SySc 416	Systems Thinking for Business	4
SySc 518	System Sustainability and Organizational Resilience	4
SySc 421	Systems Philosophy	4
SySc 423	Systems Ideas and Sustainability: Limits, Structural Change, and Resilience	4
SySc 431	Data Mining with Information Theory	4
SySc 435	Modeling & Simulation with R and Python	4
SySc 440	Introduction to Network Science	4
SySc 452	Game Theory	4
UnSt 239	Knowledge, Values, Rationality	4
Subtotal: 24		

Women, Gender, and Sexuality Studies

150 Parkmill Building (PKM)
1633 SW Park Ave.
503-725-3516
www.pdx.edu/ws/

- B.A., B.S.—Women's Studies
- B.A., B.S.—Sexuality, Gender, and Queer Studies
- Minor in Women's Studies
- Minor in Sexuality, Gender, and Queer Studies
- Postbaccalaureate Certificate in Women's Studies

In the School of Gender, Race and Nations, the Department of Women, Gender, and Sexuality Studies offers an interdisciplinary program designed to foster students' personal and intellectual development and to prepare them for socially responsible citizenship as well as a broad range of careers. Women, Gender, and Sexuality Studies advisers work closely with each student to craft a

course of study appropriate to the student's academic interests and post-graduate goals.

An expanding field of scholarship, women, gender, and sexuality studies is on the cutting edge of educational and intellectual innovation. The department offers two different majors: the Women's Studies major, and the Sexuality, Gender, and Queer Studies major. The Women's Studies major encourages students to develop critical thinking skills and an appreciation for the range of theoretical frameworks and methodologies present in contemporary feminist scholarship. Courses incorporate the diversity of women's experience with attention to race, class, and sexual orientation as well as gender. Core courses also encourage students' active participation through discussion, informal as well as formal writing, and collaborative learning in the classroom.

The major in Sexuality, Gender, and Queer Studies (SGQS) is designed to provide an in-depth study of sexual desire, sexual behavior and identity, gendered behavior, gender identity, and the sexed body as socially, culturally, and historically produced. The core curriculum emphasizes queer and trans of color theorizing and critiques including queer indigenous, Two-Spirit, and transnational perspectives; critical analysis of the relationships between sexuality and other power formations such as gender, race, class, nation, ability, nature, citizenship, age, and size; historical contexts and contemporary connections among rigorous theoretical, activist, political, and practice-oriented approaches; and an interdisciplinary, queer, and decolonial approach to analyses of the creative arts, humanities, and health and social sciences.

Experiential learning plays an important role in a student's progress through the women, gender, and sexuality studies curriculum. The program's extensive and long-established ties with organizations in the Metro area provide wide-ranging opportunities for students to apply their classroom knowledge in a community setting. Many students discover a life's vocation through these experiences, and all develop new skills. Guidelines for women, gender, and sexuality studies practica and independent study are flexible in order to meet individual needs. Degrees in Women's Studies and Sexuality, Gender, and Queer Studies provide the foundations for life-long learning as well as background and experience for careers in teaching, counseling and social work, business, law, health sciences, public administration, public relations, and academia.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Women, Gender, and Sexuality Studies' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See page for Admissions Requirements (p. 8) for more information.

WOMEN'S STUDIES B.A./B.S.

In addition to meeting the general University degree requirements, the student majoring in Women's Studies must complete a required core program of 36 credits and 20 credits of WS electives (with a minimum of 16 upper-division credits) for a total of 56 credits to complete the major.

Each student pursuing a Women's Studies major will select or be assigned an adviser who is knowledgeable in the student's area(s) of academic interest.

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling major requirements with the following exceptions: one Women, Gender, and Sexuality Studies elective course, WS 404 Cooperative Education/Internship, or WS 409 Practicum. The minimum grade allowed to pass major requirements will be 1.7 C-.

REQUIREMENTS

Core courses (28 credits)

WS 101	Introduction to Women's Studies	4
WS 301	Gender and Critical Inquiry	4
WS 305	Women of Color Feminist Theory	4
WS 307	Women, Activism and Social Change	4
WS 315	Feminist Analysis	4
WS 412	Feminist Methodologies	4
WS 415	Senior Seminar	4

Experiential learning (8 credits)

WS 409	Practicum	6
WS 411	Experiential Learning Seminar	2

Electives (20 credits; with a minimum of 16 upper-division credits)

WS 306U	Global Gender Issues	4
WS 308U	Topics in Gender, Literature, and Popular Culture	4
WS 310U	Psychology of Women	4
WS 312U	Feminist Philosophy	4
WS 317U	Writing as Activism	4
WS 320U	Introduction to Girls' Studies	4
WS 330U	Women of Color in the United States	4
WS 331U/Intl	Women in the Middle East	4

WS 332U	Race, Class, Gender, and Sexuality in the United States	4
WS 337U	Communication and Gender	4
WS 340U	Women and Gender in America to 1848	4
WS 341U	Women and Gender in America 1848-1920	4
WS 342U	Women and Gender in the U.S. 1920 to the Present	4
WS 343U	American Family History	4
WS 346U/Bi 346U	Genes & Society	4
WS 347U/Sci 347U	Science, Gender, and Social Context	4
WS 348U/Sci 348U	Science, Gender, and Social Context	4
WS 351U	Gender and Education	4
WS 360U	Introduction to Queer Studies	4
WS 365U/Sci 365U	The Science of Women's Bodies	4
WS 367U	War, Sexual Violence and Healing	4
WS 369U	Global Reproductive Justice	4
WS 370U	History of Sexualities	4
WS 375U	Topics in Sexuality Studies	4
WS 372U/Eng 372U	Topics in Literature, Gender, and Sexuality	4
WS 377U	Topics in Feminist Spirituality	4
WS 380U	Women and Politics	4
WS 387	Feminist Organizations: Theory and Practice	4
WS 410	Selected Topics	1-6
WS 417	Women in the Economy	4
WS 424/PS 425	Women and the Law	4
WS 425/Soc 425	Sociology of Gender	4
WS 426/Soc 426	Gender & Mental Health	4
WS 428	Lesbian History	4
WS 431U/ArH 431U	Women in the Visual Arts	4
WS 444	British Women Writers	4
WS 445	American Women Writers	4
WS 451	Interrupting Oppression	4
WS 452/Comm 452	Gender and Race in the Media	4
WS 453	Feminism and Women's Health	4
WS 467	Work and Family	4

WS 470U	Asian American Women's Studies	4
WS 471	Global Feminisms	4
WS 479	Women and Organizational Psychology	4
WS 480	Introduction to Critical Disability Studies	4
WS 481	Disability and Intersectionality	4
Intl 360U	Bollywood: Communicating Contemporary South Asia through Cinema	4
JSt 335U	Sex, Love, and Gender in Israel	4
Subtotal: 56		

SEXUALITY, GENDER AND QUEER STUDIES B.A./B.S.

In addition to meeting the general University degree requirements, the student majoring in Sexuality, Gender, and Queer Studies must complete a required core program of 36 credits and 20 credits of approved WS electives (with a minimum of 16 upper-division credits) for a total of 56 credits to complete the major.

Each student pursuing a Sexuality, Gender, and Queer Studies major will select or be assigned an adviser who is knowledgeable in the student's area(s) of academic interest.

REQUIREMENTS

The major in Sexuality, Gender and Queer Studies (SGQS) is 56 credits. Those credits are divided as follows:

Core Courses (28 credits)

UnSt 231	Gender & Sexualities	4
or		
WS 332U	Race, Class, Gender, and Sexuality in the United States	4
WS 360U	Introduction to Queer Studies	4
WS 370U	History of Sexualities	4
WS 381	Queer of Color Theorizing and Perspectives	4
WS 412	Feminist Methodologies	4
WS 415	Senior Seminar	4
WS 482	Topics in Transnational Sexuality Studies	4

Experiential Learning Requirements (8 credits)

WS 409	Practicum	6
WS 411	Experiential Learning Seminar	2

Electives (20 credits)

20 credits of which 4 credits may be lower-division.

WS 308U	Lesbian Literature	4
WS 308U	Masculinities	4
WS 308U	Gender, Class, Culture	4

WS 372U/Eng 372U	Topics in Literature, Gender, and Sexuality	4
WS 375U	Topics in Sexuality Studies	4
WS 382U	Transgender Studies	4
WS 481	Disability and Intersectionality	4
Anth 432	Gender in Cross-Cultural Perspective	4
BSt 342U	Black Feminism/Womanism	4
CFS 340U	Queer Families	4
CFS 390U	Sex and the Family	4
Comm 337U	Communication and Gender	4
Comm 452/WS 452	Gender and Race in the Media	4
PHE 335U	Human Sexuality	4
PHE 453	Women's Reproductive Health	4
Phl 369U	Philosophy of Sex and Love	4
Psy 431U	Psychology of Men and Masculinities	4
Soc 344U	Gender and Sexualities	4
WLL 349	Forbidden Love	4

Other variable and special topic courses with a focus on sexuality may count as electives (e.g., FILM 370U Queer Cinema or Eng 494 Queer Theory); in these instances consult with a SGQS advisor for approval.

The minimum grade allowed to pass major requirements will be 1.7 C-. The only major requirement with a P/NP grading option is WS 409.
Subtotal: 56

WOMEN'S STUDIES MINOR

REQUIREMENTS

A minor in Women's Studies will consist of 28 credits. Students will be required to take:

Core Courses (12 credits)

WS 101: Introduction to Women's Studies (4 credits), as well as two of the following courses:

WS 301	Gender and Critical Inquiry	4
WS 305	Women of Color Feminist Theory	4
WS 307	Women, Activism and Social Change	4
WS 315	Feminist Analysis	4
WS 412	Feminist Methodologies	4

Electives (16 credits)

Elective requirements may be fulfilled by any of the following core courses or by WS electives (see WS major electives listing (p. 193)), including courses cross-listed with other departments or approved by a WS adviser.

WS 409	Practicum	6
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WS 411	Experiential Learning Seminar	2
WS 415	Senior Seminar	4
Subtotal: 28		

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling minor requirements with the following exceptions: one Women, Gender, and Sexuality Studies elective course or WS 409 Practicum.

SEXUALITY, GENDER, AND QUEER STUDIES MINOR

The minor in Sexuality, Gender, and Queer Studies is an interdisciplinary program which examines sexual desire, sexual practice, gender expression, gender identity, and the sexed body as more than products of biology, but rather as socially organized, even socially produced phenomena located within specific power formations and subject to historical change. This program questions commonplace knowledge, providing new frameworks for the critical study of gender and sexuality. The curriculum includes a broad spectrum of topics related to sexuality and gender, from queer theory and film to the psychology of masculinities, the history of sexualities, and global issues in sexual health.

The minor consists of 32 credits, including four core courses (16 credits) and 16 credits of electives:

REQUIREMENTS

Core Courses

UnSt 231	Gender & Sexualities	4
WS 332U	Race, Class, Gender, and Sexuality in the United States	4
WS 360U	Introduction to Queer Studies	4
WS 370U	History of Sexualities	4

Electives

Electives must have a focus relevant to sexuality, gender, and queer studies in order to count toward the minor.

Elective credit may be fulfilled by the following approved courses or by other courses approved by the faculty adviser for the minor where appropriate.

Anth 103	Introduction to Social/Cultural Anthropology	4
Anth 432	Gender in Cross-Cultural Perspective	4
BSt 342U	Black Feminism/Womanism	4
CFS 340U	Queer Families	4
CFS 390U	Sex and the Family	4
Comm 452/WS 452	Gender and Race in the Media	4
Comm 410	Sex and the Media	4
Eng 372U	Topics in Literature, Gender, and Sexuality	4

Eng 494	Topics in Critical Theory and Methods	4
Eng 447	Major Forces in Literature	4
Eng 441	Advanced Topics in Renaissance Literature	4
PHE 335U	Human Sexuality	4
PHE 410	Sex Education in America	4
PHE 410	Worldview of Sexual Health	4
PHE 453	Women's Reproductive Health	4
Phl 369U	Philosophy of Sex and Love	4
Psy 410	Human Sexualities	4
Psy 431U	Psychology of Men and Masculinities	4
Soc 339U	Marriage and Intimacy	4
Soc 344U	Gender and Sexualities	4
Span 410U	Selected Topics	4
Span 436	Major Topics: Latin American Multiple Genres	4
WS 308U	Topics in Gender, Literature, and Popular Culture	4
WS 372U/Eng 372U	Topics in Literature, Gender, and Sexuality	4
WS 375U	Topics in Sexuality Studies	4
WS 381	Queer of Color Theorizing and Perspectives	4
WS 382U	Transgender Studies	4
WS 482	Topics in Transnational Sexuality Studies	4
Subtotal: 32		

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling minor requirements with the exception of WS 409 Practicum if approved by a program adviser.

WOMEN'S STUDIES POST-BACCALAUREATE CERTIFICATE

The WS post-bac certificate consists of 24 required credits plus 16 approved upper-division electives for a total of 40 credits. In meeting the 16 elective credits, students may take a maximum of 12 credits in any one academic area (arts & letters; science; social science).

REQUIREMENTS

Core Courses

WS 301	Gender and Critical Inquiry	4
WS 315	Feminist Analysis	4
WS 412	Feminist Methodologies	4
WS 415	Senior Seminar	4
WS 409	Practicum	6
WS 411	Experiential Learning Seminar	2

Electives (16 credits; see elective listing under WS major)

Approved upper-division electives (minimum of 12 upper-division)

Subtotal: 40

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling Certificate requirements with the following exceptions: one Women, Gender, and Sexuality Studies elective course, or WS 409.

Total Credit Hours: 40

World Languages and Literatures

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www.pdx.edu/wll

- B.A.—Concentration in Arabic, Chinese, French, German, Japanese, Russian, or Spanish
- Minor—Concentration in Arabic, Chinese, French, German, Italian, Japanese, Persian, Russian, Spanish, or Turkish
- Minor in Classical Studies
- Certificate in Teaching Japanese as a Foreign Language
- Certificate of Advanced Proficiency in Russian
- Secondary Education Program
- M.A.—World Language: French, German, Japanese, or Spanish
- M.A.—World Languages and Literatures: primary languages—French, German, Spanish; secondary languages—Arabic, Chinese, French, German, Japanese, Russian, or Spanish

Foreign Language Requirement

At Portland State University, all incoming students who graduate from an Oregon high school in 1997 or later must demonstrate proficiency in a second language as an admission requirement. And most BA or MA programs require students to achieve proficiency in a foreign language as a degree requirement. Students may satisfy the foreign language requirements by taking courses offered through the Department of World Languages and Literatures, or as an alternative, by passing a language test. Testing for language requirement equivalence is only available for languages listed on the WLL website. If your language does not appear in the testing list, you must satisfy the language requirement through transcribed university or community college coursework. If you have questions about any foreign language requirement, go to <http://www.pdx.edu/wll/foreign-language-requirement>.

Credit by examination

Credit by exam may be granted for first-year and second-year language sequences only. A student may be awarded credit by exam for a maximum of one language sequence (12-15 credits). Credit by exam is awarded only for those languages taught by the department. Credit received by examination is graded P/NP only.

Students of French, German, or Spanish may receive credit for first- or second-year by taking a CLEP exam (administered by Testing Services). The amount of credit awarded will depend on the score received. Students of American Sign Language, Arabic, Chinese, Danish, Greek, Modern Hebrew, Italian, Japanese, Korean, Latin, Norwegian, Persian, Portuguese, Russian, Swahili, Swedish, Turkish, or Vietnamese should contact the department for individual testing.

Native speakers (defined as students whose formal secondary education was completed in the foreign language) may not receive credit by examination for their native language.

Undergraduate programs

The Department of World Languages and Literatures offers undergraduate major programs in Arabic, Chinese, French, German, Japanese, Russian, and Spanish; minor programs in the above languages and in Italian, Persian, Turkish, and Classical Studies; and instruction in the above languages, as well as in American Sign Language, Ancient Greek, Modern Hebrew, Italian, Korean, Latin, Norwegian, Portuguese, Swahili, Swedish, and Vietnamese. Other languages may be offered from time to time.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for World Languages and Literatures' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements for more information.

Placement

Students with prior experience in French, German, or Spanish are required to take an online placement examination. You may access the test under "Advising" at www.pdx.edu/wll.

Students of Arabic, Chinese, Greek, Modern Hebrew, Italian, Japanese, Korean, Latin, Norwegian, Portuguese, Russian, Swahili, Swedish, or Turkish may contact the Department of World Languages and Literatures for placement advising.

Restrictions

The language sequences 101, 102, 103 (or 150, 151) and 201, 202, 203 must be taken in order. Students who have earned credit in a higher-level language course will not receive credit for any lower numbered course or the equivalent CLEP exam. This restriction also applies to transfer credits and Credit by Exam.

Native speakers (defined as students whose formal secondary education was completed in the foreign language) may not register for first- through fourth-year language courses in their native language. They may register for courses that are taught in English.

WORLD LANGUAGE B.A.

The Department of World Languages and Literatures offers undergraduate majors in Arabic, Chinese, French, German, Japanese, Russian, and Spanish. An undergraduate world language major must complete 32 upper-division credits (numbered 300 or higher) in language, literature and culture, an additional 8 credits in 400-level language and literature courses (excluding 401-410), 8 credits in adviser-approved electives, and 4 credits in linguistics (Ling 390, WLL 390, or a linguistics course in the target language). French and Spanish majors must include a minimum of two courses from the 341, 342, 343, 344, 345 sequence and a minimum of 16 400-level credits in their total program.

REQUIREMENTS

Courses

Language, literature, and culture (32 credits)

(in Fr and Span this must include two courses from the 341-342-343-344-345 sequence and at least 8 400-level credits)

400-level courses in the major language (8 credits)

(excluding 401-410)

Adviser-approved electives (8 credits)

Linguistics (4 credits)

WLL 390	Languages of the World	4
Ling 390	Introduction to Linguistics	4
	or	
	a linguistics course in the major language	

Subtotal: 52

- Before being admitted to 400-level courses, students will be expected to demonstrate proficiency at a level determined by the individual language program.
- No more than 8 credits of courses numbered 404 (Cooperative Education) may be counted toward the major.
- 20 of the required 52 credits must be taken in residence at PSU (excludes credit by exam but includes study abroad credit from PSU approved programs).
- All courses used to satisfy major requirements must be passed with a grade of C or higher. (C- and P are not acceptable.) Students majoring in a world language must maintain a minimum GPA of 2.50 on all courses used to satisfy the major requirements.

WORLD LANGUAGE MINOR

The Department of World Languages and Literatures offers undergraduate minors in American Sign Language (ASL), Arabic, Chinese, French, German, Italian, Japanese, Modern Hebrew, Persian, Russian, Spanish, and Turkish. An undergraduate world language minor must complete 20 upper-division credits (numbered 300 or above) in language, literature, or culture, at least 12 of which are in the target language, and 4 credits in general linguistics (WLL 390, Ling 390, or a linguistics course in the target language).

REQUIREMENTS

Courses

Language, literature and culture	20
Linguistics	4

- No more than 4 credits of courses numbered 404 (Cooperative Education) may be counted toward the minor.
- Twelve of the required 24 credits must be taken in residence at PSU (includes study abroad credit from PSU approved programs).
- All courses used to satisfy the departmental minor requirements, must be graded C or higher. (C- and P are not acceptable). Students minoring in a foreign language must maintain a minimum GPA of 2.50 on all courses used to satisfy the minor requirements.

CLASSICAL STUDIES MINOR

An undergraduate minor in classical studies consists of 36 credits of Latin and Ancient Greek (two years of Latin and one of Greek or two years of Greek and one of Latin) and 12 credits of area classes selected from the list below.

REQUIREMENTS

Language (36 credits)

Two years of Latin and one of Ancient Greek
or
Two years of Ancient Greek and one of Latin

Area Classes (12 credits)

ArH 352U	Ancient Greek Art and Architecture	4
ArH 353U	Ancient Roman and Etruscan Art and Architecture	4
Eng 317U	Greek Mythology	4
Grk 330U	Ancient Greek Literature in Translation	4
Grk 331U	Plato as Literature	4
Grk 332U	Greek Religion	4
Grk 333U	Women in Ancient Greece	4
Grk 334U	Greek Ethical Thought	4
Grk 335U	Sophocles and Euripides	4
Grk 336U	Ancient Greek Comedy	4
Hst 315U	Greek History	4
Hst 316U	Roman History	4
Lat 330U	Roman Culture	4
Lat 341U	Roman Literature in Translation	4
Phl 414	Plato	4
Phl 415	Aristotle	4
TA 471	Theater History: Periods and Topics	1-4

Subtotal: 48

- Twelve of the required 48 credits must be taken in residence at PSU.
- All courses used to satisfy minor requirements must be graded C or higher. Students minoring in classical studies must maintain a minimum GPA of 2.50 in all courses used to satisfy the minor requirements.

ADVANCED PROFICIENCY IN RUSSIAN CERTIFICATE (CAPR)

The Certificate of Advanced Proficiency in Russian (CAPR) is designed to permit students majoring in any subject to achieve Superior (professional) proficiency in Russian. Candidates may enroll in the program as undergraduate or as post-baccalaureate students.

Admission requirements

Students who wish to complete the Certificate program must first be admitted to the Russian Flagship Program (RFP). Sponsored by The Language Flagship, RFP offers both Introductory and Advanced tracks. See www.pdx.edu/russian-flagship/ for details.

COURSE REQUIREMENTS

Students in the program take five advanced Russian classes, three content classes conducted in Russian, and six Russian across the curriculum classes attached to the students' general education requirements and individual majors. Students complete their Senior Capstone in Russian.

Courses

Advanced Russian Language Classes (5 classes):

Rus 325	Russian Phonetics and Phonology	4
Rus 411	Advanced Russian	4
Rus 412	Advanced Russian	4
Rus 413	Advanced Russian	4
Rus 414	Advanced Russian Grammar	4
Subtotal: 20		

Content Classes (3 classes) chosen from:

Rus 421	Topics in Contemporary Russian Culture	4
Rus 427	Topics in Russian Literature of the 19th Century	4
Rus 433	Topics in Russian Literature of the 20th Century	4
Subtotal: 12		

Russian Across the Curriculum:

Rus 444	Flagship Studies: Globalization Term 1	2
Rus 445	Flagship Studies: Globalization Term 2	2
Rus 446	Flagship Studies: Globalization Term 3	2
Rus 454	Flagship Studies: American Studies	2
Rus 455	Flagship Studies: European Studies	2
Rus 456	Flagship Studies: Environmental Sustainability	2
Rus 457	Flagship Studies: Russian in the Major Term 1	2
Rus 458	Flagship Studies: Russian in the Major Term 2	2
Rus 459	Flagship Studies: Russian in the Major Term 3	2
UnSt 421	Capstone	6
Subtotal: 24		

Subtotal: 56

- All courses used to satisfy CAPR certificate requirements must be graded C or higher.

Total Credit Hours: 56

TEACHING JAPANESE AS A FOREIGN LANGUAGE (TJFL) CERTIFICATE

This program is designed to familiarize participants with principles of instructional methods in teaching Japanese to speakers of languages whose orthography is not kanji-based. It is designed to fit into the programs of majors in a wide variety of fields, including Japanese, education, linguistics, and the social sciences. Candidates may enroll as post-baccalaureate students or while completing undergraduate degree requirements in another field.

Admission requirements

1. Admission to Portland State University.
2. Japanese proficiency at the ACTFL Intermediate High level.

Students whose proficiency is lower may be provisionally admitted; they will need to study Japanese while taking other courses in the certificate program.

COURSE REQUIREMENTS

To qualify for the TJFL certificate, the student must complete 16 credits in theoretical and applied linguistics (through the departments of World Languages and Literatures or Applied Linguistics), 16 credits in Japanese area studies (literature, history, anthropology, etc.), and 8 credits in TJFL Methods (Jpn 477, Jpn 478).

Courses

Linguistics	16
Area Studies	16
TJFL Methods	8

Subtotal: 40

All courses used to satisfy certificate course requirements must be graded C or above.

FOREIGN LANGUAGE SECONDARY EDUCATION PROGRAM

Advisers: **French**, S. Walton; **German**, K. Godfrey; **Japanese**, S. Watanabe; **Russian**, W. Comer; **Spanish**, E. Nunez.

Students who wish to teach a foreign language in Oregon secondary schools must be admitted into the Graduate Teacher Education Program (GTEP) in Portland State's Graduate School of Education and complete the requirements for an Oregon Teaching License. Admission to GTEP as a foreign-language specialist requires a bachelor's degree or equivalent preparation in a world language taught in Oregon schools and the recommendation of the Department of World Languages

and Literatures. For other criteria, please refer to the Graduate School of Education section of this Bulletin.

In order to be recommended by the department, the applicant must have:

1. Applied for admission to the Graduate Teacher Education Program in the Graduate School of Education (see Graduate Teacher Education Program (p. 139)).
2. Completed a B.A. or B.S. which includes coursework equivalent to the 52 credits required for a major in one foreign language at Portland State University.
3. Maintained a 3.00 GPA in the last 40 of the above 52 credits earned.
4. Obtained an Oral Proficiency Rating of Advanced High or higher on the ACTFL scale in French, German, or Spanish, or a rating of Intermediate High or higher in Japanese or Russian.

The Department of World Languages and Literatures highly recommends that applicants earn upper-division credits in their chosen language beyond the minimum of 52 required; that they spend time in a relevant program abroad; and that their coursework include as many of the following as possible: Phonetics, General Linguistics, Applied Linguistics, Culture and Civilization, Practicum, and Methods of Teaching Foreign Languages.

Graduate programs

The Department of World Languages and Literatures offers degree programs leading to the M.A. in World Language with a major in French, German, Japanese, or Spanish, and the M.A. in World Languages and Literatures, with a concentration in two world literatures and linguistics.

ADMISSION REQUIREMENTS

All applicants for admission must meet the University admissions requirements (p. 8).

Master of Arts in World Language

Applicants for admission must also meet the following departmental requirements:

1. A Bachelor of Arts degree or its equivalent in the major language, with a minimum GPA of 3.00 in all coursework.
2. Oral and written proficiency: Advanced High on the ACTFL scale in French, German, and Spanish; Advanced Low in Japanese.

Master of Arts in World Languages and Literatures

Applicants for admission must also meet the following departmental requirements:

1. In the primary language:
 - a. Bachelor of Arts in the language with a 3.00 GPA in the literature courses, or its equivalent as determined by the Department;
 - b. Oral and written proficiency: Advanced High on ACTFL scale
2. In the secondary language: Demonstration of third-year proficiency.

DEUTSCHE SOMMERSCHULE AM PAZIFIK

Graduate credits earned in German through the Deutsche Sommerschule am Pazifik (DSaP) can be accepted as in-residence credit at Portland State University only if taken after formal admission to the M.A. in World Language program in German or the M.A. in World Languages and Literatures in German. Graduate credit earned at the DSaP prior to admission to either program is normally limited to 15 credits, in accordance with the University's transfer regulations.

An M.A. degree in German earned solely by attendance at the Sommerschule normally entails four summers' work plus thesis.

WORLD LANGUAGE M.A.

The M.A. in World Language is a graduate degree with a major in French, German, Japanese, or Spanish language and literature. It is available with a thesis and a non-thesis option. The thesis option is generally recommended for students who intend eventually to obtain a doctorate. The non-thesis option is often appropriate for those who intend to use their M.A. coursework as direct preparation for secondary-school language teaching or another career. Students should consult with their adviser to determine the best option.

A candidate for the Master of Arts in World Language must complete a minimum of 45 graduate credits, of which 30 must be taken in residence after admission to the degree program. The 45 credits are to be distributed as follows:

REQUIREMENTS

Thesis option

WLL 560	Principles of Scholarly Research	4
WLL 598	Methods of Teaching Foreign Languages	4
503	Thesis	6-9
	Additional adviser-approved 500-level coursework	20-23

Credits from 551,552,553

Eight graduate credits chosen from 551, 552, 553	8
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Subtotal: 45**Non-thesis option**

WLL 560	Principles of Scholarly Research	4
WLL 598	Methods of Teaching Foreign Languages	4

501	Research or	6-9
	Other adviser-approved 500-level credits	6-9

Additional adviser-approved 500-level coursework	20-23
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Credits from 551,552,553

Eight graduate credits chosen from 551, 552, 553	8
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Subtotal: 45

Note: The student's program may include, with adviser's approval, a maximum of 12 credits in 501 and/or 505 and a maximum of 9 credits in 508 and/or 509 combined. See Credit Distribution and Limitations for Master's Degrees (p. 44).

In addition to the required coursework, the candidate will have to:

- **Thesis option:** Submit a thesis, written in either the foreign language or in English, and pass a final examination in accordance with University requirements.
- **Non-thesis option:** Submit two research papers in different adviser-approved subject areas, written either in the foreign language or in English, and pass a final written and oral examination.

WORLD LANGUAGES AND LITERATURES M.A.

The M.A. in World Languages and Literatures is a graduate degree with concentration in a primary language, a secondary language, and in linguistics. The primary language may be French, German, or Spanish; the secondary language may be Arabic, Chinese, French, German, Japanese, Russian, or Spanish.

REQUIREMENTS

A minimum of 60 credits, of which 40 must be earned in residence, distributed among the following areas:

Primary language**General**

WLL 560	Principles of Scholarly Research	4
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Credits from 551, 552, 553

Eight graduate credits chosen from 551, 552, 553	8
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Other

Other adviser-approved 500-level courses	16
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Subtotal: 28**Secondary language****Eight graduate credits chosen from:**

511	Advanced Language	4
512	Advanced Language	4
514	Advanced Language	4
516	Advanced Language	4
517	Advanced Language	4

Twelve graduate credits chosen from:

500-level literature	12
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Subtotal: 20

Note: 500-level literature may not include Literature in Translation.

Note: If upper-division courses in fourth-year language have been successfully completed at the undergraduate level (with a GPA of 3.00 or above), the equivalent number of Advanced Language credits can be waived, reducing the total credits required by a maximum of 8.

Linguistics and methods

12 graduate credits chosen from:

WLL 593	Language Proficiency Testing and Teaching	4
WLL 598	Methods of Teaching Foreign Languages	4
Fr 590	History of the French Language	4
Ger 584	German Stylistics	4
Ger 594	German Linguistics	4
Ger 597	Applied German Linguistics	4
Jpn 552	Japanese Language and Linguistics	4
Jpn 577	Teaching Japanese As a Foreign Language	4
Jpn 578	Teaching Japanese As a Foreign Language	4
Jpn 594	Japanese Sociolinguistics	4
Span 590	History of the Spanish Language	4
Span 594	Spanish Linguistics	4
Span 597	Applied Spanish Linguistics	4
Span 598	Spanish Syntax	4
	Other adviser-approved courses	

Subtotal: 12

Subtotal: 60

In addition to the required coursework, the candidate will have to:

- Submit two research papers to the graduate committee, one dealing with the primary, the other with the secondary area. These may be written either in the primary or secondary languages, respectively, or in English.
- Pass a final comprehensive written and oral examination over coursework taken in the primary and secondary areas and over the research papers.

OHSU-PSU SCHOOL OF PUBLIC HEALTH

David Bangsberg, Dean

Jill Rissi, Associate Dean for Academic Affairs

Liana Winett, Associate Dean for Student Affairs & Community Engagement

Shelly Wolf, Associate Dean for Finance and Administration

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- B.A., B.S. —Health Studies, Applied Health and Fitness
- Undergraduate Certificate in Human Lactation
- Minors in Community Health, Aging Services
- Graduate Certificates in Biostatistics, Public Health
- M.S. —Biostatistics
- M.P.H. —Biostatistics, Environmental Systems and Human Health, Epidemiology, Health Management and Policy, Health Promotion, Public Health Practice (online)
- M.A., M.S. —Health Studies
- Ph.D. —Community Health, Epidemiology, Health Systems and Policy

About the School of Public Health

Ending health disparity, in Oregon and around the globe

The School of Public Health unites two of Oregon's leading universities to educate the next generation of public health leaders, with a vision of ending health disparities in Oregon and around the globe. This unique collaboration combines the strengths of a world-class academic health center with the deep community involvement and diversity of the state's only urban research university. Our vision is to be the premier destination in Oregon for students of all backgrounds who want to enter the health field and improve lives in their communities.

Collaboration

Two universities, one mission: Better health for all

Oregon Health & Science University is known internationally for groundbreaking and life-saving research in cancer and medicine. Portland State University is a national model for community engagement and academic innovation. Together, the two universities offer unmatched opportunity for students to learn in the classroom and apply that knowledge and in real-world settings.

Access & Equity

A vision of health equity

One of our top goals is to increase the number of underserved and historically marginalized students in the health field. This serves two purposes: to ensure a diverse student body and to enable students to help end health disparities by working in communities that are negatively affected by social, environmental, and health system limitations. Part of our mission is to be an access university, we take pride in the number of students we accept, not how many we reject.

Value

Research + engagement: The best of both worlds

The deep community engagement of PSU faculty and biomedical research expertise at OHSU give students direct access to two distinct but connected areas of academic excellence. Graduates emerge with degrees endorsed by both universities in a field where demand is growing rapidly.

Expanding Role of Public Health

Building healthy populations

With a focus on healthy populations rather than individuals, public health seeks to understand the foundations and social determinants of health and works to resolve disparities. Nutrition, maternal-child health, gun violence, health policy, health literacy and homelessness are only some of the factors in ending health disparities. Populations can be as small as a local neighborhood or as big as an entire region of the world.

Community Partnerships

Connecting with the community

PSU and OHSU have an established network of local and regional partners, including clinics, governmental agencies and nonprofit agencies. This network offers students a wealth of opportunity for internships, hands-on learning and contacts for future employment.

Affordability

An affordable degree with excellent ROI

The cost of a degree from the OHSU-PSU School of Public Health is among the lowest in Oregon and far lower than similar degrees from private colleges. Graduates enter health fields that offer above-average salaries, along with opportunities to work anywhere in the world.

Demand for Graduates

Boundless career opportunities

The health workforce is reaching retirement age, creating a significant gap between demand and supply of health workers in the near future. Graduates can expect a robust career market.

Doctoral programs

COMMUNITY HEALTH PH.D.

Award of the PhD is the culmination of a sequential process of coursework, comprehensive examination, and the research, writing, and defense of a doctoral dissertation. Students take a series of core health and research methods courses as well as elective courses in one of three areas of emphasis (social and behavioral health, aging and health, or urban health). Upon successful completion of coursework, students must pass a written and oral comprehensive exam. Before advancing to PhD candidacy, students complete and defend a dissertation proposal. Students then design, implement, and analyze a research project. The final product is a written dissertation with an oral defense of the dissertation work. The comprehensive exam and dissertation are required for all admitted students.

Students admitted with a Master's Degree in Public Health will take the required coursework as shown. Students admitted with a graduate degree other than a Master in Public Health will be required to take PHE 530 Epidemiology I, PHE 511 Foundations of Public Health, and PHE 515 Introduction to Biostatistics as electives. All credit transfers and substitutions of other graduate coursework completed are at the discretion of the doctoral program.

DEGREE REQUIREMENTS

Required Health Courses

PHE 612	Advanced Principles of Health Behavior	3
PHE 524	Social Epidemiology Methods & Theory	3
PHE 546	Urban and Community Health	3
PHE 580	Concepts of Environmental Health	3
PHE 622	Health and Social Inequalities	3
PHE 623	Doctoral Seminar in Health Research	1
PHE 626/SW 626	Teaching and Learning in Health Promotion & Social Work	3
HSMP 671	Health Policy	3
HSMP 674	Health Systems Organization	3

Students are required to be enrolled in the 1-credit per quarter PHE 623 Doctoral Seminar in Health Research for a total of 6 credits during the first two years (6 quarters) of

the program. The Doctoral Seminar in Health Research will meet weekly with a faculty instructor on topics such as the critical evaluation of health research, hypothesis generation, publication and review process, grant application process, and program requirements.

Elective Health Courses

Students must also take at least 10 credits of electives on health topics related to whichever of the three defined areas of emphasis the student has chosen (i.e., social and behavioral health, aging and health, or urban health) or otherwise related to the student's interests and approved by the student's advisor.

Required Methods Courses

PHE 520	Qualitative Research Design	3
PHE 624	Doctoral Research Methods in Community Health I	3
PHE 625	Doctoral Research Methods in Community Health II	3
USP 634	Data Analysis I	4
USP 654	Data Analysis II	4

The required methods courses will cover traditional epidemiological as well as other social science research methods. Competencies will include study design, sampling, measurement, evaluation, qualitative research and analysis.

Methods Course Electives

In addition to the required methods courses, students must enroll in at least 6 credits of methods electives. Elective course selections must be approved by the student's advisor.

Research

Students are expected to be actively engaged in research during their program of study. This will ensure students are exposed to all levels of the research process, including hypothesis formulation, literature review, data collection, analysis, and grant and publication writing. The goal of the research experience is to educate students about applied health research through hands-on, one-on-one mentored training. The expectation is that this experience will culminate in co-authorship of peer-reviewed publication(s). Students will be enrolled in a total of 18 credits in PHE 601 Research (3 credits per term), a by-arrangement course, in which the student will work with his or her advisor (or an alternative supervisor approved by the advisor) on a research project during the second and third years of the program.

Comprehensive Exam

The written and oral comprehensive examination is taken after the student has finished all required and elective coursework. For full-time students, this exam is expected to take place during the fall term of the student's third

year. Scheduling of this exam for part-time students will be negotiated by the student and his/her advisor.

Dissertation

Upon successful completion of the comprehensive exam, the student will form a committee of 4 faculty members and a Graduate Office representative who will help guide the preparation of the dissertation proposal. After committee approval of the student's written and oral presentation of a dissertation proposal, then approval of the project by the University Human Subjects Research Review Committee application, the student will advance to doctoral candidacy. Students must complete at least 27 credits of PHE 603 Dissertation credits, in addition to having an approved written dissertation and successful oral defense of the dissertation, to be eligible for graduation. The PHE 603 Dissertation credits are by-arrangement credits supervised by the PHE advisor or the dissertation chair (faculty within PHE). Continuous registration with a minimum of 1 PHE 603 Dissertation credit is required while engaged in dissertation research.

Other Professional Development

The core curriculum has a strong emphasis on community engagement, research mentorship, critical evaluation of research, and professional development. Doctoral students, however, are expected to do more than simply fulfill degree requirements while in the Community Health doctoral program. Some of these extracurricular activities, such as attending lecture series, workshops, and brown bag seminars, are expected of any member of the community of scholars. Other activities, such as serving as research or teaching assistants, provide opportunities for professional development, publication, presentation at conferences, and remuneration.

EPIDEMIOLOGY PH.D.

Epidemiology is defined as the study of the distribution of health and disease in populations, including the factors that influence population health. The Doctoral Program in Epidemiology is intended for students who have an interest in quantitative population-based health research.

Epidemiologic training is based on a broad spectrum of introductory and advanced courses in epidemiology, biostatistics, and public health. Doctoral-level training enables scientists to investigate causes and correlates of health through interventional and observational research and to advance the methods for such research. This program provides a unique educational experience for students interested in immediately applying theory to practice as they prepare for careers as researchers and educators.

The epidemiology program works with students seeking university funding, either by providing them with program

funding through graduate research and/or teaching assistantships or by helping them to identify funding outside the program.

Core Competencies

Students graduating from this program will be able to:

- Identify public health issues that warrant epidemiologic study and conduct independent, scholarly research that advances knowledge about the causes, prevention, and amelioration of human disease
- Work collaboratively across disciplines on research and applied projects
- Teach graduate students and health professionals in academic, governmental, non-profit and private sector settings

For more information and instructions on how to apply visit the PhD in Epidemiology web page.

HEALTH SYSTEMS AND POLICY PH.D.

The Ph.D. program in Health Systems and Policy (HS&P) in the OHSU-PSU School of Public Health provides students with advanced knowledge, analytic skills, and competencies in conducting research and developing teaching and learning skills in health systems and policy. The foundations of the HS&P Ph.D. program include public health, management theory, health services research, and policy analysis.

The program curriculum is delivered by an interdisciplinary faculty from PSU and OHSU with educational backgrounds in public health, health policy, public affairs, management, economics, epidemiology, social work, psychology, systems science, and sociology. Students will generally select one of four primary emphasis areas: 1) health systems organization, financing and delivery, 2) health policy analysis, 3) health services access, quality and cost, or 4) community-based health and social services.

This program provides a unique educational experience for students seeking to apply theory to practice in careers as researchers and teachers. This is achieved by building upon Oregon's role as a leader in health systems transformation, and the formalized collaborative relationships PSU has with OHSU and with the Oregon Health Authority, as well as strong partnerships with major health systems and health insurance organizations in Oregon.

The HS&P curriculum reflects the vision, mission and competencies of the OHSU-PSU School of Public Health. It prepares graduates to address the social determinants of health, and lead in the implementation of new approaches and policies to improve the health of populations. The curriculum is framed around seven competencies that reflect the expectations of doctoral programs in public health. The HS&P program includes core curricular content in health systems and public health, extensive study of policy domains and applications, and intensive training in research methods and research design. The curriculum is designed to help students integrate coursework with applied research and practice, and emphasizes community-engaged learning and scholarship.

DEGREE REQUIREMENTS

Prerequisites

Admitted students who have completed a relevant masters degree in health management/policy will be able to waive portions of the required curriculum. All students are required to fulfill prerequisite courses of the equivalent of Epidemiology I, Introduction to Biostatistics, and Foundations of Public Health; students entering with an MPH will usually have completed such content.

Credit requirements

The program includes 104-116 required credits, including 21-27 credits in required core courses, 19-21 credits in policy courses, 12 credits in health systems courses, and 19-23 credits in research design and analytic methods courses. Students are required to enroll in a one-credit health systems and policy dissertation seminar each quarter during their first two years of coursework to help prepare them for the dissertation process (up to 6 credits). Finally, students complete 27 credits of dissertation preparation. Additional major requirements include a written and oral comprehensive exam at the completion of course requirements and before advancement to the dissertation, a written dissertation proposal with an oral defense, and a final written dissertation with an oral defense.

The credits are distributed as follows:

Required core courses	21-27
Policy courses	19-21
Health systems courses	12
Research design and analytic methods	19-23
Dissertation seminar	6
Dissertation credits	27

Subtotal: 104-116

Each admitted student's past masters coursework will be reviewed upon admission and a determination made regarding waiver of courses. A program of study will then

be developed with the assigned advisor. No waiver of credit will be given for professional experience.

Core coursework

The required core courses (21-27 credits) should be completed early in the program of study.

HSMP 641	Organizational Behavior in Health Service Organizations	3
HSMP 671	Health Policy	3
HSMP 673	Values and Ethics in Health	3
HSMP 674	Health Systems Organization	3
HSMP 677	Health Care Law and Regulation	3
HSMP 686	Introduction to Health Economics	3
HSMP 660	Contemporary Research in Health Systems and Policy	3

NOTE: A student who has completed an MPH in health management and policy or a comparable masters degree could potentially waive some or all of the first six courses in the core.

Policy coursework

Three courses are required; students then select three electives based upon their interests in relevant policy domains (19-21 credits total). Relevant electives are listed on the HS&P website and in the HS&P student handbook.

HSMP 575	Advanced Health Policy	3
PAP 616	Policy Process	3
USP 615	Economic Analysis of Public Policy	4
	Three policy electives	9-12

Health systems coursework

One course is required; students then select three electives based upon their interests in health systems (12 credits total). Relevant electives are listed on the HS&P website and in the HS&P student handbook.

PHE 622	Health and Social Inequalities	3
	Three health systems electives	9

Research design and methods coursework

Students will complete three research design courses (9-11 credits), one of which is required, and three courses on analytic methods (10-12 credits), one of which is required. Relevant electives are listed on the HS&P website and in the HS&P student handbook.

Research design

HSMP 689	Research Design in Health Services	3
	Two research design electives	6-8

Analytic methods

PHE 520	Qualitative Research Design	3
	or	
USP 683	Qualitative Analysis	4
	Two analytic methods electives	6-8

Doctoral seminar in health systems and policy

Students enroll in a one-credit seminar (HSMP 607) each quarter during their first two years to help prepare them for the dissertation process; they are encouraged to continue to attend the seminar throughout their entire program. The seminar meets regularly with a selected faculty mentor to discuss research topics, including critical evaluation of health systems and policy research, framing research questions, proposal writing, the grant application process, data collection and synthesis, human subjects review, dissertation writing and presentation, the review process, program requirements, and publication opportunities. Students present their developing work at the seminar to receive peer feedback. HSMP 607 Seminar may be taken for up to 6 credits.

Comprehensive examination

Students must pass a written and oral comprehensive examination at the conclusion of course requirements before they may proceed to the dissertation. This examination assesses the student's competence in integrating, analyzing and critiquing the diverse bodies of knowledge covered in the HS&P curriculum. The examination committee consists of three HS&P/SPH faculty.

Dissertation research

The dissertation process is designed to evaluate the student's ability to successfully conduct a substantial, independent, applied research project. The dissertation represents the culmination of a student's doctoral studies. The dissertation is critiqued by the dissertation committee, and presented in an oral defense. The dissertation committee consists of 4-5 relevant HS&P or SPH faculty. Students register for HSMP 603 Dissertation for a minimum of 27 credits during the research and writing of the dissertation.

ADMISSION REQUIREMENTS

Information about the HS&P Ph.D. program and all application forms may be found at <https://ohsu-psu-sph.org/apply-phd-health-systems-policy/>. For further assistance, contact the program administrator at applysph@ohsu.edu. Application materials must be submitted electronically through SOPHAS, the centralized application service for public health-related education programs. More information on the SOPHAS online application system can be found at <https://sophas.org/>. Applications are not accepted in hard copy or via email. Applications are accepted for fall

admission only; the early application deadline is December 1st and the final deadline is January 31st. Early submission to facilitate processing through SOPHAS is strongly encouraged.

All admitted students must have completed a masters degree from an accredited institution. Admissions standards include a GPA of at least 3.5 at a relevant masters program; combined verbal and quantitative GRE scores above 326 and 4.5 analytic; minimum TOEFL of 213 computer-based or 550 paper-based.

RESEARCH AND TEACHING OPPORTUNITIES

The HS&P program offers students a number of research and teaching opportunities.

Graduate research assistantships

Dependent on available funds, graduate research assistantships are available each year with faculty in the School of Public Health and in various research centers. Assistantships pay tuition and a small stipend. Additional summer research opportunities may be available.

Teaching opportunities

Doctoral students may wish to gain experience teaching prior to completing their program. There are a number of opportunities available within the School of Public Health, the Hatfield School of Government, the College of Urban and Public Affairs, and PSU's University Studies program. More information is available in the HS&P handbook.

Graduate programs

The School of Public Health graduate programs are designed to prepare students for professional work in the fields of community health, health promotion, health management, and health policy in a wide variety of settings. Students may also complete a plan of study that prepares them to pursue a doctoral degree in a health-related area.

The School of Public Health offers eight graduate degrees.

1. A Master of Public Health (M.P.H.) degree in Health Promotion.
2. A Master of Public Health (M.P.H.) degree in Health Management and Policy.
3. A Master of Public Health (M.P.H.) degree in Biostatistics
4. A Master of Public Health (M.P.H.) degree in Environmental Systems and Human Health

5. A Master of Public Health (M.P.H.) degree in Public Health Practice
6. A Master of Public Health (M.P.H.) degree in Epidemiology
7. A Master of Science (M.S.) degree in Biostatistics.
8. A Master of Arts/Master of Science (M.A./M.S.) degree in Health Studies - **Not Currently Admitting**

Students with a wide variety of undergraduate degrees and professional experience are admitted to the School of Public Health.

BIostatISTICS MPH

Biostatistics is one of the five core areas of public health knowledge. Over the last decade in the US, there has been an increasing demand for individuals well-trained in the field of biostatistics to collaborate in public health research and program evaluation. The increasing use of electronic health records, population-based health surveys, large scale community-based interventions and evaluations of health care reform initiatives are just a few examples where biostatistics is essential for public health. We have noticed that those excelling in biostatistics often find employment prior to completing their degrees, a strong indication of the need for a track specifically focused on the application of biostatistics in public health. The Biostatistics track of the MPH program provides training in biostatistics methods as they apply to population health.

Courses emphasize intermediate to advanced applied statistical methods and statistical programming commonly used in public health research and practice, and track competencies highlight population-based study design, analytic methods, data interpretation, and communication. Epidemiological study design and methods are also an important component of the training provided by this track. Graduates of the program will be equipped to pursue careers in local, state and federal agencies, health and medical centers, pharmaceutical companies and research institutions.

Core Competencies

Students graduating from this track will be able to:

- Apply appropriate principles of research design and population-based concepts to assess health problems;
- Apply appropriate descriptive and inferential statistical methods to analyze risk determinants of disease and health conditions;
- Apply descriptive and inferential statistical methods that are appropriate to the different study designs used in public health research;

- Interpret and summarize results and communicate them to lay and professional audiences, in the context of proper public health principles and concepts;
- Identify strengths and weaknesses of alternative designs and analytic methods, and critically review and assess statistical analyses presented in public health literature;
- Describe basic ethical principles pertaining to the collection, maintenance, use, and dissemination of public health data;
- Identify cultural dimensions of conducting research, including culturally sensitive recruitment of study participants, and develop strategies for interpretation of data in the larger cultural context.

For more information and instructions on how to apply to the program visit the MPH in Biostatistics web page.

ENVIRONMENTAL SYSTEMS AND HUMAN HEALTH MPH

The MPH in Environmental Systems & Human Health (ESHH) track offers ecosystem-based public health training for students who would like to investigate and remediate environmental impacts on human health. Believing that a healthy environment is a cornerstone of preventative medicine, the goal of the ESHH track is to produce graduates who will be able to analyze relationships between human activities, the environment, and human health. Areas of emphasis include environmental change and its effect on human health, environmental pathogens, environmental transport, fate and remediation of chemical contaminants, food web bioaccumulation, wastewater treatment, environmental risk assessment and toxicity testing, culturally competent risk communication, and social justice issues. Within the ESHH track special attention will be given to mediating and modifying the effects of environmental disruptions on the health of vulnerable populations in a culturally competent, ethical manner.

Core Competencies

Students graduating from this track will be able to:

- Communicate the relationship between environmental systems and human health
- Analyze how environmental hazards (chemical, physical and biological) interact with natural and built systems, including the mechanisms of their adverse effects on humans
- Evaluate the risk of environmental exposures to human populations through the incorporation of exposure, toxicologic, and other relevant data into risk assessment methodology

- Specify approaches for assessing, preventing and controlling environmental and occupational hazards that pose risks to human health and safety
- Assess and interpret relevant literature in the area of public health and the environment
- Explain the general mechanisms of toxicity in eliciting a human health effect in response to various environmental and occupational exposures
- Describe federal and state regulatory programs, guidelines and authorities that control environmental and occupational health issues
- Integrate, synthesize and apply theory to practice in the context of a research study, policy development, or environmental exposure
- Demonstrate cultural competency in community settings
- Apply ethical principles that govern the practice of environmental risk assessment, management, and communication

For more information and instructions on how to apply visit the MPH in Environmental Systems & Human Health web page.

EPIDEMIOLOGY MPH

Graduates of the OHSU-PSU School of Public Health MPH in Epidemiology work to reduce disease risk and promote health by discovering and understanding the causes, prevention, and control of adverse health outcomes in populations. Epidemiologists are often employed by local, state, and federal government agencies; non-profit public health organizations; research institutes, and post-secondary institutions. Graduates direct studies and analyze data as well as communicate findings to the public and policy makers.

Program Competencies

Students graduating from this program will be able to: Apply evidence-based knowledge of health determinants to public health issues.

- Apply evidence-based knowledge of health determinants to public health issues
- Select and use appropriate methods for the design, analysis, and synthesis to address population-based health problems
- Integrate understanding of the interrelationship among the organization, delivery, and financing of health-related services.
- Communicate public health principles and concepts using various strategies across multiple sectors of the community.
- Employ ethical principles and behaviors in research and practice settings.
- Enact cultural competence and promote diversity in public health research and practice
- Apply public health knowledge and skills in practical settings

For more information and instructions on how to apply visit the MPH in Epidemiology web page.

HEALTH MANAGEMENT AND POLICY M.P.H.

The Master of Public Health in Health Management and Policy combines training in public health with training in health management and policy to prepare current and future public health leaders for careers in health systems, government, research, advocacy, and health-related community-based organizations. The goal of the Health Management and Policy program is to develop and strengthen the knowledge and practice of the delivery, management, and governance of health-related services to improve the public's health. The Health Management and Policy curriculum integrates the core concepts of public health with specific instruction in management, finance, strategy, policy, economics, and ethics. The program prepares students to exercise effective policy and administrative leadership at all levels within the organizations and systems that support the public's health.

REQUIREMENTS

Students admitted to the health management and policy M.P.H. degree are required to complete 62 hours of coursework. Instruction is provided at Portland State University and Oregon Health & Science University. Students are required to pass the Certified in Public Health (CPH) examination before graduation.

Core courses (17)

PHE 512	Principles of Health Behavior I	3
PHE 515	Introduction to Biostatistics	4
PHE 530	Epidemiology I	4
PHE 580	Concepts of Environmental Health	3
HSMP 574/PAH 574	Health Systems Organization	3

Health management and policy required concentration (24)

HSMP 541	Organizational Behavior in Health Service Organizations	3
HSMP 571/PAH 571	Health Policy	3
HSMP 573	Values and Ethics in Health	3
HSMP 576	Strategic Management of Health Care Organizations	3
HSMP 577	Health Care Law and Regulation	3
HSMP 586/PAH 586	Introduction to Health Economics	3
HSMP 587	Financial Management of Health Services	3
HSMP 588	Program Evaluation and Management In Health Services	3
Elective Credits from the following list (15):		
PA 525	Grantwriting for Nonprofit Organizations	3
PA 543	Creating Collaborative Communities	3
PA 545	Organizational Development	3
PA 549	Cross-cultural Communication in the Public Sector	3
PA 553	Sustainable Development Policy and Governance	3
PA 554	Policy Analysis Research	3
PA 556	Public Contract Management	3
PA 558	Managing Public Projects and Programs: From Local to Global	3
HSMP 544	Leadership and Governance in Health Services	3
HSMP 570/PAH 570	Health Administration	3
HSMP 572/PAH 572	Health Politics	3
HSMP 575	Advanced Health Policy	3
HSMP 578	Continual Improvement In Health Care	3
HSMP 579	Health Information Technology and Systems Management	3
HSMP 580	Health Services Human Resources Management	3
PHE 520	Qualitative Research Design	3
PHE 541	Media Advocacy and Public Health	3
Age 557	National Long-term Care Policy	3

Other courses may be approved by the adviser.

Field work (6)

Interprofessional Education course (1-2 credits), the 1-credit Applied Practice Experience seminar, the 4-credit Integrative Learning Experience

HSMP 509/PAH 509	Practicum	1-9
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Total Credit Hours: 62

HEALTH PROMOTION M.P.H.**REQUIREMENTS**

Students pursuing the M.P.H. degree must complete at least 60 credits with a cumulative GPA of 3.00 or higher, including a core of 17 credits, 28 additional required credits, an Interprofessional Education course (1-2 credits), the 1-credit Applied Practice Experience seminar, the 4-credit Integrative Learning Experience, and 9 credits in an Area of Emphasis. The student's academic advisor must approve the Area of Emphasis. All students must pass a Certified in Public Health (CPH) exam before graduation.

The following courses are required:

Core Courses (17 Credits)

PHE 512	Principles of Health Behavior I	3
PHE 530	Epidemiology I	4
PHE 580	Concepts of Environmental Health	3
HSMP 574/PAH 574	Health Systems Organization	3
PHE 515	Introduction to Biostatistics	4

Health Promotion Required Courses (34-35 Credits)

PHE 511	Foundations of Public Health	3
PHE 517	Community Organizing	3
PHE 519	Introduction to the Etiology of Disease	3
PHE 520	Qualitative Research Design	3
PHE 521	Quantitative Research Design and Analysis	3
PHE 550	Health Promotion Program Planning	4
HSMP 573	Values and Ethics in Health	3
HSMP 588	Program Evaluation and Management In Health Services	3
PHE 540	Mass Media and Health	3
PHE 541	or Media Advocacy and Public Health	3
PHE 504	Integrative Learning Experience	4
CPH 513	Applied Practice Experience	1
IPE	Interprofessional Experience	1-2

Subtotal: 60-61**Area of Emphasis (9 credits)****The student's academic advisor will work the student to define and must approve the Area of Emphasis.****Subtotal: 60**

**MPH IN PUBLIC HEALTH PRACTICE
(ONLINE)**

Students in the OHSU-PSU School of Public Health MPH in Public Health Practice acquire broad knowledge about and perspectives on public health policy and practice, with particular emphasis on improving primary healthcare accessibility and quality for underserved populations based on the concepts and principles of primary health care defined by the World Health Organization (universal coverage, service delivery, public policy, leadership, and stakeholder participation). To support working and distance students, coursework for the MPH in Public Health Practice program may be completed entirely online. Online MPH students are fully matriculated into the School of Public Health and have the option to complete some of their courses in person. Graduates are employed by state and local governmental agencies, non-profits, and community organizations.

Core Competencies

Students graduating from this track will be able to:

- Assess, analyze and synthesize the health status of vulnerable populations
- Identify, develop and manage interventions to promote and protect the health of populations at risk
- Lead and participate in interprofessional efforts to address health inequities with community partners
- Conduct, participate in or apply research which improves the health of a population
- Assess and integrate cultural beliefs and practices into public health interventions
- Develop & apply effective communication strategies across multiple sectors of the community
- Understand the principles of public health ethics and apply them to public health practice
- Employ knowledge of health systems organization and health care finance to population based health problems
- Apply quality improvement and risk management principles in the development, management and/or evaluation of population health services

- Understand and participate in the process of grant and proposal development
- Employ techniques to manage human, fiscal, and other public health resource

For more information and instructions on how to apply visit the MPH in Public Health Practice (online) web page.

BIostatISTICS MS

The Master of Science in Biostatistics degree is designed to provide graduate level training in the application and theory of biostatistics. The program is primarily aimed at those wishing to pursue careers as intermediate level biostatisticians or apply for doctoral programs in Biostatistics. The program is also appropriate for individuals who have earned a Graduate Certificate in Biostatistics and wish to pursue further training.

Target audiences for this program include individuals who desire careers as collaborative biostatisticians in the basic, clinical, translational or population sciences. The program will also be appropriate for some clinical and translational researchers (e.g. K awardees or postdoctoral trainees), students in other Oregon graduate programs, as well as working professionals throughout the state and region (e.g. public health practitioners, laboratory scientists, data managers, database programmers, other research professionals).

All faculty members in the Department's Division of Biostatistics are actively involved with externally funded projects. Students will have opportunities to work with real world applications under the supervision of faculty.

Core Competencies

Students graduating from the MS program in Biostatistics will be able to:

- Apply intermediate to advanced biostatistical theory and techniques to design, plan, and manage data collection to conduct analysis for own research projects or support collaborative research teams
- Translate broad research goals into specifications and procedures for statistical analysis and interpretation of results in basic, clinical, translational and public health research studies
- Select and use appropriate statistical analysis software for assessment, decision-making and information-sharing (e.g., Stata, SAS, R or other special programs)
- Communicate statistical methods and findings clearly and unambiguously to specialists and non-specialist audiences

For more information and instruction on how to apply visit the MS in Biostatistics web page.

HEALTH STUDIES M.A./M.S.

The M.A./M.S degree in Health Studies is designed to provide students with an interest in physical activity/exercise an opportunity for graduate study. Students must complete each of the common required courses (including the completion of a project or a thesis) as well as courses in the area of physical activity/exercise.

Students pursuing the M.A./M.S. degree in Health Studies must complete at least 49 graduate credits with a cumulative GPA of 3.00 or higher, including a core of 22 credits, and 18 additional credits from the physical activity/exercise concentration and 3 credits of elective to be determined by student and advisor.

All M.A./M.S. students must complete either a thesis or a project. The thesis option requires the completion and defense of a thesis (9 credits), and the project option requires the completion of a project (6 credits).

The School of Public Health is not currently admitting students to the M.A./M.S. degree in Health Studies.

REQUIREMENTS

The following courses are required:

Concentration Courses

PHE 507	Seminar	1-9
PHE 545	Men's Health	4
PHE 546	Urban and Community Health	3
PHE 551	Women and Holistic Health	4
PHE 552	Women's Health	3
Age 556	Health Aspects of Aging	4
Age 558	Perspectives on Aging	3
PHE 573	Physiology of Exercise	4
PHE 575	Exercise Testing Techniques	4
Soc 592	Qualitative Methods	4
Psy 550	Occupational Health Psychology	4
Psy 571	Health Psychology	4
Bi 517	Mammalian Physiology	4
Bi 518	Comparative Animal Physiology	4
Bi 520	Ethical Practice in the Life Sciences	3
Bi 562	Neurophysiology	4

Common Required Courses

PHE 511	Foundations of Public Health	3
PHE 512	Principles of Health Behavior I	3
PHE 520	Qualitative Research Design	3
PHE 521	Quantitative Research Design and Analysis	3
PHE 530	Epidemiology I	4
PHE 576	Physical Activity, Health, and Disease	3

PHE 577	Exercise, Nutrition, and Performance	3
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9 credits of thesis
or

6 credits of project

Electives

Elective credits determined by student and advisor.	3
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Graduate Certificates

BIostatistics GRADUATE CERTIFICATE

The Graduate Certificate in Biostatistics program will provide basic and intermediate graduate level biostatistics training for a diverse range of students in the health sciences. It is primarily aimed at researchers, students in other programs, and working professionals who are interested in becoming more skilled in applied biostatistics methods and theory. Many students have also chosen the graduate certificate program to start learning biostatistics prior to applying to the MS in Biostatistics program.

Candidates should possess an aptitude for mathematics. Thirty credits (18 credits in core courses, 12 in electives) will be required to earn the Certificate in Biostatistics. The program is comprised of formal didactic sessions and hands-on statistical computing. Classroom and laboratory training will include ample contextualized examples, and analysis projects using real life data. Opportunities exist for mentored collaborative health science research experiences involving ongoing projects with our faculty.

Core Competencies

Students graduating from this program will be able to:

- Perform a broad range of basic and intermediate level applied statistical procedures that are required in basic, clinical, population and translational sciences
- Interpret and summarize analysis results in research reports and papers and communicate them to individuals with varying degrees of statistical knowledge
- Apply the principles of research design to address problems in basic, clinical, and population sciences
- Identify strengths and weaknesses of alternative designs and analytic methods
- Conduct analyses for the student's own research projects or provide support to collaborative research teams

For more information and instructions on how to apply visit the Certificate in Biostatistics web page.

PUBLIC HEALTH GRADUATE CERTIFICATE

The Graduate Certificate in Public Health (GCPH) is an online program designed to enhance the preparation of public health professionals not currently prepared in a public health academic specialty, and provide a broad introduction to public health for students. The GCPH is open to applicants with a bachelor's degree in any discipline.

There is an identified urgent and ongoing need for suitable public health preparation in the current workforce. The GCPH will provide you an exceptional foundation that will enhance your marketable public health expertise, improve your professional flexibility and mobility, and provide core public health competencies.

Core Competencies

Students graduating from this program will be able to:

- Use principles of statistical inference for critical reading and interpretation of reports of statistical analysis and of public health problems;
- Apply epidemiologic methods to identify patterns of disease and injury;
- Analyze the environmental and occupational impacts on the health of a population;
- Identify and analyze major issues in health services and systems associated with the delivery, quality and costs of health care;
- Communicate theoretical principles, constructs, and models used to understand and affect the behavioral aspects of health.

For more information and instructions on how to apply visit the Certificate in Public Health web page.

Undergraduate Programs

Undergraduate degrees in the School of Public Health are offered in Health Studies and in Applied Health & Fitness. The Health Studies curriculum is designed around a common core and five separate tracks: aging services, community health education, health sciences, school health, and health administration.

The Applied Health & Fitness degree has 3 tracks: fitness & exercise, fitness for special populations, and health coaching.

DEGREE MAPS, LEARNING OUTCOMES, AND GRADE REQUIREMENTS

To view the degree maps and expected learning outcomes for the School of Public Health's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

A grade of C- or better is mandatory in all coursework required for degrees in the School of Public Health. With the exception of internship credits, courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling the majors or minors offered within the School. Students must fulfill all general University requirements in addition to specific school requirements.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements for more information.

APPLIED HEALTH & FITNESS B.A./B.S.

REQUIREMENTS

Required Coursework

In addition to meeting the general University degree requirements all majors in Applied Health & Fitness must take the following required coursework. Majors must also complete coursework in one of three focus areas: Fitness & Exercise, Fitness for Special Populations, or Health Coaching.

Required coursework

PHE 250	Our Community: Our Health	4
PHE 270	Basic Biomechanics	2
PHE 314	Research in Health and Fitness	4
PHE 325U	Nutrition for Health	4
PHE 361	Care and Prevention of Injuries	4
PHE 363	Communicable Diseases and Chronic Health Problems	4
PHE 370	Applied Kinesiology	4
PHE 473	Physiology of Exercise	4
PHE 474	Exercise Prescription and Training	4
PHE 475	Exercise Testing Techniques	4
PHE 404	Cooperative Education/Internship	4-8
Bi 301	Human Anatomy and Physiology	4
Bi 302	Human Anatomy and Physiology	4

Subtotal: 44-48

FITNESS & EXERCISE FOCUS

Required Courses

PHE 421	Health Coaching Strategies	4
PHE 456	Health Aspects of Aging	4

PE 128-132		4
PE 194	Fitness Instruction: Personal Training	2
BA	Courses Upon Advisor Approval	4
	PHE or approved electives	8
	Students earning a PE teaching endorsement for Secondary Education see*** below.	
Subtotal: 26		

*** Students take the following 4-credit courses for the teaching endorsement:

PHE 340 - Motor Learning

PHE 417 - Adapted Physical Education

Psy 311U - Human Development

FITNESS FOR SPECIAL POPULATIONS FOCUS

Required Courses

PHE 295	Health Promotion/Disease Prevention	4
PHE 340	Motor Learning	4
PHE 417	Adapted Physical Education	4
PHE 456	Health Aspects of Aging	4
PE 101-149		2
PE 193	Fitness Instruction: Adapted Physical Education	2
	PHE or approved electives	8
Subtotal: 28		

HEALTH COACHING FOCUS

Required Courses

PHE 275	Stress Management	4
PHE 295	Health Promotion/Disease Prevention	4
PHE 421	Health Coaching Strategies	4
PHE 466	Mind/Body Health: Disease Prevention	4
Comm 218	Interpersonal Communication	4
	PHE or approved electives	8
Subtotal: 28		

CERTIFICATE IN HUMAN LACTATION

The undergraduate certificate in Human Lactation offers comprehensive lactation training for:

- Students who want to improve their lactation skills,

- Non-health professionals who want to become certified as International Board Certified Lactation Consultants (IBCLC),
- Health professionals want to become certified as International Board Certified Lactation Consultants (IBCLC),
- Students wishing to seek a bachelor's degree in Health Sciences,
- Students interested in politics, policy and research from the perspective of improving maternal and infant health outcomes.

Completion of the Lactation Pathway enables students to sit for the International Board Certified Lactation Consultant (IBCLC) exam. IBCLC designation enables students to provide advanced practice clinical lactation care for families in a variety of settings.

For more information about the Certificate in Human Lactation, please visit: <https://ohsu-psu-sph.org/undergraduate/lactation/>

HEALTH STUDIES B.A./B.S.

REQUIREMENTS

Core requirements

In addition to meeting the general University degree requirements all majors in health studies must take the following core coursework plus choose a concentration area:

Core coursework

Stat 243	Introduction to Probability and Statistics I	4
PHE 250	Our Community: Our Health	4
PHE 350	Health and Health Systems	4
PHE 363	Communicable Diseases and Chronic Health Problems	4
PHE 450	Epidemiology	4
PHE 452U	Gender, Race, Class and Health	4
PHE 404	Cooperative Education/Internship	4-8

AGING SERVICES CONCENTRATION

The aging services concentration is designed for individuals who wish to develop or enhance a career related to aging services, including such services as senior health promotion and case management, and community- or institutionally-based long-term care.

Students who complete the course work required for the concentration will possess a basic understanding of gerontology with particular skills in administration and finance, chronic disease, and health promotion. This program also will enhance the skills of students planning to enroll in industry-provided training to become

administrators of assisted living facilities and residential care facilities or nursing homes.

In addition to the previously listed common core requirements, students pursuing a concentration in aging services must complete the following:

Required coursework (28 credits)

PHE 325U	Nutrition for Health	4
PHE 354U	Social Gerontology	4
PHE 416	Families and Aging	4
PHE 423	Business and Aging	4
PHE 456	Health Aspects of Aging	4
PHE 478	Program Planning and Evaluation: Needs Assessment and Interventions	4
PHE 479	Program Planning and Evaluation in Health Education: Implementation and Evaluation	4

Choose one of the following:

PHE 328U	Health and Housing Across the Life Course	4
PHE 369	Public Health Law, Policy, and Ethics	4
Psy 462	Psychology of Adult Development and Aging	4
Soc 469	Sociology of Aging	4

Choose one of the following:

BA 306U	Essentials of Finance for Non-Business Majors	4
BA 316U	Essentials of Marketing for Non-Business Majors	4
BA 326U	Essentials of Management for Non-Business Majors	4

16 credits from the following courses

BA 101	Introduction to Business and World Affairs	4
BA 306U	Essentials of Finance for Non-Business Majors	4
BA 316U	Essentials of Marketing for Non-Business Majors	4
BA 326U	Essentials of Management for Non-Business Majors	4
BA 336U	Essentials of Information Technology for Non-Business Majors	4
BA 346U	Essentials of Entrepreneurship for Non-Business Majors	4
Comm 318U	Family Communication	4
Ec 316U	Introduction to Health Care Economics	4
PHE 328U	Health and Housing Across the Life Course	4
PHE 369	Public Health Law, Policy, and Ethics	4

PHE 445	Men's Health	4
PHE 446U	Community Health Principles and Practices	4
PHE 451	Women and Holistic Health	4
Phl 313U	Life and Death Issues	4
Psy 311U	Human Development	4
Psy 462	Psychology of Adult Development and Aging	4
Soc 459	Sociology of Health and Medicine	4
Soc 469	Sociology of Aging	4
SW 301U	Introduction to Social Work	4
HSMP 320U/PAH 320U	Health Ethics: Contemporary Issues	4
HSMP 399	Special Studies	1-8

Other electives may be taken with advisor approval.

COMMUNITY HEALTH EDUCATION CONCENTRATION

The community health education concentration prepares students for a wide variety of careers related to health education. It also provides a foundation for the pursuit of graduate study.

In addition to the previously listed common core requirements, students pursuing a concentration in community health education must complete:

Required coursework (24 credits)

PHE 369	Public Health Law, Policy, and Ethics	4
PHE 443U	Environmental Health	4
PHE 444U	Global Health	4
PHE 472	Marketing Public Health	4
PHE 478	Program Planning and Evaluation: Needs Assessment and Interventions	4
PHE 479	Program Planning and Evaluation in Health Education: Implementation and Evaluation	4

Twenty (20) credits from the following courses:

PHE 275	Stress Management	4
PHE 325U	Nutrition for Health	4
PHE 326U	Drug Education	4
PHE 335U	Human Sexuality	4
PHE 351U	Film and Health	4
PHE 355U	Consumer Health Issues	4
PHE 361	Care and Prevention of Injuries	4
PHE 365	Health Promotion Programs for Children and Youth	4
PHE 445	Men's Health	4
PHE 446U	Community Health Principles and Practices	4

PHE 448	Health Education Techniques and Strategies	4
PHE 451	Women and Holistic Health	4
PHE 453	Women's Reproductive Health	4
PHE 456	Health Aspects of Aging	4
PHE 466	Mind/Body Health: Disease Prevention	4
PHE 467	Mind/Body Health: Human Potential	4
PHE 480	Controversial Issues in Community Health	4
HSMP 320U/PAH 320U	Health Ethics: Contemporary Issues	4
HSMP 399	Special Studies	1-8

Other electives may be taken with advisor approval.

HEALTH ADMINISTRATION CONCENTRATION

The health administration concentration is designed for individuals who wish to develop or enhance a career in health systems administration, including such activities as health program management, health policy analysis, patient support, health finance, quality improvement, and other administrative functions.

Students who complete the course work required for the concentration will possess a basic understanding of health systems with particular knowledge and skills in administration and finance, health policy, and health systems. In addition to learning foundations of community and public health, students will gain knowledge in the basic conceptual frameworks of health services delivery; develop insights into the organization, delivery, and financing of health services; and build understanding of various perspectives of those who provide, finance, manage, govern, and access health services.

The program of study includes common core requirements, required courses, and elective course options. Students pursuing a concentration in health administration must complete the following:

Required Courses (44 credits)

BA 101	Introduction to Business and World Affairs	4
BA 306U	Essentials of Finance for Non-Business Majors	4
Ec 316U	Introduction to Health Care Economics	4
HSMP 320U/PAH 320U	Health Ethics: Contemporary Issues	4
PA 425	Grantwriting for Nonprofit Organizations	4
PHE 321U	Introduction to Health Policy	4
PHE 322U	Health Services Administration	4

PHE 426	Advanced Topics in Health Services Administration	4
PHE 427	Introduction to Health Informatics	4
PHE 478	Program Planning and Evaluation: Needs Assessment and Interventions	4
PHE 479	Program Planning and Evaluation in Health Education: Implementation and Evaluation	4

Elective Courses (8)

Two electives from the following:

Comm 329U	Introduction to Health Communication	4
PA 315U	Managing People for Change	4
PA 320U	Introduction to Nonprofit Management	4
PA 399	Special Studies	1-4
PHE 354U	Social Gerontology	4
PHE 423	Business and Aging	4
PHE 472	Marketing Public Health	4

Other electives may be taken with advisor approval.

HEALTH SCIENCES CONCENTRATION

The health sciences concentration provides students seeking admittance into professional programs such as medicine, dentistry, physical therapy, and occupational therapy the opportunity to earn an undergraduate degree in health studies while completing pre-professional prerequisites.

In addition to the previously listed common core requirements, students pursuing a concentration in health sciences must select one of the following options: pre-medicine, pre-dentistry, pre-physical therapy, pre-occupational therapy, pre-chiropractic medicine, pre-osteopathy, pre-podiatry, pre-nursing, pre-naturopathic medicine, pre-optometry, pre-pharmacy, and pre-physician assistant and pre-physician assistant or adviser approved option. In choosing courses to complete, students should verify the specific prerequisites required by the professional school(s) to which an application for admission is being submitted. Advising sheets summarizing prerequisites for professional schools in Oregon and selected schools in the Pacific Northwest can be found online at <http://www.pdx.edu/clas/prepro.html>. **Students must complete all prerequisites required by the professional school to which an application is being submitted to receive a Health Science degree. Please consult regularly with your pre-health adviser.**

In addition to the previously listed core courses, students must also complete 16 credits from the following upper-division courses:

16 credits from the following upper-division courses:

PHE 325U	Nutrition for Health	4
PHE 351U	Film and Health	4
PHE 354U	Social Gerontology	4
PHE 355U	Consumer Health Issues	4
PHE 361	Care and Prevention of Injuries	4
PHE 365	Health Promotion Programs for Children and Youth	4
PHE 370	Applied Kinesiology	4
PHE 410	Selected Topics	1-8
PHE 444U	Global Health	4
PHE 445	Men's Health	4
PHE 446U	Community Health Principles and Practices	4
PHE 451	Women and Holistic Health	4
PHE 453	Women's Reproductive Health	4
PHE 456	Health Aspects of Aging	4
PHE 466	Mind/Body Health: Disease Prevention	4
PHE 467	Mind/Body Health: Human Potential	4
PHE 473	Physiology of Exercise	4
PHE 474	Exercise Prescription and Training	4
PHE 475	Exercise Testing Techniques	4
HSMP 320U/PAH 320U	Health Ethics: Contemporary Issues	4
HSMP 399	Special Studies	1-8

Other electives may be taken with advisor approval.

SCHOOL HEALTH CONCENTRATION

The school health concentration is designed for students interested in teaching health education within a public or private school setting. Upon completion of a bachelor's degree, students are eligible to apply to the fifth-year Graduate Teacher Education Program (GTEP) in the Graduate School of Education at PSU. After completion of GTEP, students will be certified to teach in the state of Oregon.

In addition to the previously listed common core requirements, students pursuing a concentration in school health education must complete the following:

Required coursework (36 credits)

PHE 275	Stress Management	4
PHE 295	Health Promotion/Disease Prevention	4
PHE 325U	Nutrition for Health	4
PHE 326U	Drug Education	4
PHE 335U	Human Sexuality	4
PHE 365	Health Promotion Programs for Children and Youth	4
PHE 448	Health Education Techniques and Strategies	4

Psy 311U	Human Development	4
Ed 420	Introduction to Education and Society	4

It is required that students who intend to apply to the GTEP program complete an anatomy/physiology sequence.

8 Credits of electives from the following list:

CFS 390U	Sex and the Family	4
CI 432	Computer Applications for the Classroom	3
Psy 346	Learning	4
Soc 337U	Minorities	4
SpEd 418	Survey of Exceptional Learners	3
PHE Elective Classes as approved by advisor		
Women's Studies courses on Violence and Sexuality		

AGING SERVICES MINOR

The minor in aging services includes coursework that will introduce the student to basic understanding of gerontology along with particular skills in administration and finance, chronic disease, and health promotion. This program also will enhance the skills of students planning to enroll in industry-provided training to become administrators of assisted living facilities and residential care facilities or nursing homes.

REQUIREMENTS

To earn a minor in aging services, students must complete at least 28 credits. At least 16 credits must be taken in residence at PSU and 16 credits must be upper division. The requirements for this minor include:

PHE 354U	Social Gerontology	4
PHE 456	Health Aspects of Aging	4

Two of the following:

PHE 328U	Health and Housing Across the Life Course	4
PHE 416	Families and Aging	4
PHE 423	Business and Aging	4

12 Credits from the following courses:

PHE 250	Our Community: Our Health	4
PHE 295	Health Promotion/Disease Prevention	4
PHE 325U	Nutrition for Health	4
PHE 328U	Health and Housing Across the Life Course	4
PHE 350	Health and Health Systems	4
PHE 363	Communicable Diseases and Chronic Health Problems	4
PHE 369	Public Health Law, Policy, and Ethics	4

PHE 370	Applied Kinesiology	4
PHE 416	Families and Aging	4
PHE 444U	Global Health	4
PHE 445	Men's Health	4
PHE 446U	Community Health Principles and Practices	4
PHE 450	Epidemiology	4
PHE 451	Women and Holistic Health	4
PHE 473	Physiology of Exercise	4
HSMP	Health Ethics: Contemporary	4
320U/PAH	Issues	
320U		
HSMP 399	Special Studies	1-8

Other electives may be taken with advisor approval.
Subtotal: 28

COMMUNITY HEALTH MINOR

The minor in community health consists of coursework selected from the list of core coursework and provides students with a foundation of theory and content related to community health.

Students pursuing a Bachelors degree in any of the Health Studies concentrations are not eligible for a minor in Community Health.

REQUIREMENTS

To earn a minor in community health, students must complete at least 28 credits. At least 16 credits must be taken in residence at PSU, and 16 credits must be upper-division. The requirement for the minor includes:

Courses

PHE 250	Our Community: Our Health	4
PHE 350	Health and Health Systems	4
PHE 363	Communicable Diseases and Chronic Health Problems	4
PHE 450	Epidemiology	4
PHE 452U	Gender, Race, Class and Health	4
	PHE or approved electives	8

Other electives may be taken with advisor approval.
Subtotal: 28

HEALTH STUDIES SECONDARY EDUCATION PROGRAM

Students who wish to become licensed teachers in health education must complete a required list of courses or their equivalent before applying to the Graduate School of Education for admission into the Graduate Teacher Education Program (see requirements). These courses are required whether the applicant holds a degree in the field or holds a degree in another subject field. Courses in the School can be taken to complete the Oregon Continuing Teaching License in Health, and selected courses can be

taken to complete the Oregon Continuing Teaching License in Physical Education.

All courses taken for the teaching field requirement must be passed with a C- or better grade and must average a 3.00 GPA. Prospective teachers should contact undergraduate advisors in the School of Public Health for specific requirements.

RESEARCH CENTERS AND INSTITUTES

Center for Public Health Studies

450 Urban Center

<http://www.pdx.edu/sch/center-for-public-health-studies>
The Center for Public Health Studies (CPHS) seeks to enhance the public's health by conducting interdisciplinary research exploring the interaction of health, society, and social policy. Our goals include:

- assessing the structural causes and consequences of health and disease;
- examining health behaviors in their social context;
- studying the effects of culture and the environment on our health and attitudes toward health care; and
- analyzing the political processes and social policies that affect the health status of populations.

SCHOOL OF SOCIAL WORK

Laura Burney Nissen, Dean

Keva Miller, Associate Dean for Academic Affairs

E. Roberto Orellana, Associate Dean for Research and Sponsored Projects

Katharine Cahn, Assistant Dean for Continuing Education

600 Academic & Student Recreation Center, 1800 SW

SIXTH, 503-725-4712

www.pdx.edu/ssw/

- B.A., B.S.—Child, Youth, and Family Studies
- B.A., B.S. —Social Work
- M.S.W.
- Ph.D.

The School of Social Work was established at Portland State University in 1961 by a resolution of the Oregon Legislature. The school is committed to the enhancement of the individual and society. Further values and beliefs include a dedication to social change and to the attainment of social justice for all peoples, the eradication of poverty, the empowerment of oppressed peoples, the right of all individuals and groups to determine their own destinies, and the opportunity to live in harmony and cooperation. While the School maintains a special commitment to these values, it recognizes the need for joining with others in society who are working toward this same purpose.

Consistent with the goals of Portland State University the three major functions of the School are teaching, research, and community service. Teaching is directed toward preparing effective and creative graduates who are ethical and culturally responsive. Students learn to serve individuals and families directly, evaluate practice, develop and administer programs, organize neighborhoods and communities, analyze social policies, conduct research, and initiate necessary reforms of existing practice, programs, and policies. Research and scholarship focus on understanding, preventing, and ameliorating social problems. Community service involves collaborative efforts with individuals and organizations to develop innovations in social welfare services and policies.

The School has an educational program involving eight structural components: the Child, Youth, and Family Studies (CYFS) program; the Baccalaureate Social Work (B.S.W.) program; the Master of Social Work (M.S.W.) program; the Distance M.S.W. Option; the Online M.S.W. Option; the Ph.D. in Social Work and Social Research program; the Center for Improvement of Child and Family Services; and the Regional Research Institute for Human Services.

Child and Family Studies

600 Academic and Student

Recreation Center

1800 SW Sixth Avenue

503-725-8241

www.pdx.edu/ssw/cfs

The Child and Family Studies Program is for students who have varied professional goals related to working with children, youth, and their families. Students who are interested in becoming elementary school teachers, social workers, counselors, early childhood educators, or special educators are advised to consider a degree in Child and Family Studies (CFS). The degree is also appropriate for students seeking career pathways such as parent educators, family advocates, youth workers, social service caseworkers, program directors/administrators, and classroom assistants. Students gain an interdisciplinary perspective on children, youth, and families, a broad understanding of family systems, and a working knowledge of the diverse socio-cultural contexts in which children and families develop.

The Child and Family Studies major program content integrates theory with practice. A liberal arts foundation, coursework in professional development and the application of content knowledge, practicum experiences in two diverse settings, and the completion of a professional portfolio prepare students for professional roles as well as graduate school. Eleven different specialization options within the degree program allow students maximum choice as they prepare for the diverse professions that are of interest to most students. These specializations include: human development, families in society, youth worker, administration of programs for children, youth and families, early childhood education, early intervention/early childhood special education, elementary education, child welfare/human services, international worker, and family life educator.

The Child and Family Studies program also offers a minor, which can be completed in close alignment with the Families and Society Junior Cluster.

Both the Child and Family Studies major and minor place strong emphasis is placed on preparing students to become change agents, creating a more just world for children, youth, and families.

DEGREE MAPS AND LEARNING OUTCOMES

To view the Child, Youth, and Family Studies degree map and expected learning outcomes, go to

www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Students must be admitted into the major to earn a baccalaureate degree in Child, Youth, and Family Studies. Admittance requirements are the completion of 90 credits, Ed 420, and Psy 311U or Psy 460 or their equivalents. Once these prerequisites have been met, students submit their intention to pursue the major and are formally admitted. Information meetings are held for students who are considering admission into the program. Call 503-725-8241 or visit <https://www.pdx.edu/ssw/events-calendar> to schedule attendance at an informational meeting. Further information and admissions forms can be obtained by visiting the Web site: <http://www.pdx.edu/ssw>.

CHILD, YOUTH, AND FAMILY STUDIES B.A./B.S.

REQUIREMENTS

In addition to meeting the general University requirements, majors must complete the following program components:

Required Courses

CFS 310	Critical Histories in CYFS: Gender/Race/Class	4
CFS 312U	Families in Lifecourse Perspective	4
CFS 381U	Families, Stress, and Change	4
CFS 391	Family Theories	4
CFS 487	Examining Bias and Belief	4
CFS 488	Structural Oppression	4
CFS 489	Activism for Social Change	2
CFS 492	Family Law and Policy	4
CFS 493	Professional Self: Ways of Knowing	2
CFS 494	Professional Self: Critical Thinking	2
CFS 495	Professional Self: Identity	2
CFS 496	Professional Self: Integration	2
CFS 497	Practicum I	5
CFS 498	Practicum II	5
Hst 343U	American Family History	4
Soc 339U	Marriage and Intimacy or	4
Soc 461	Sociology of the Family	4
SpEd 417	Introduction to Special Education or	4
SpEd 418	Survey of Exceptional Learners	3

16 credits of CFS electives from the following:

CFS 101	Introduction to Child and Family Studies	2
CFS 320U	ABCs of Early Childhood Education	4
CFS 330U	American Families in Film and Television	4
CFS 340U	Queer Families	4
CFS 350U	Interpersonal Violence: Impact on Children & Families	4
CFS 382U	Mental Disorders: Issues for Families and Communities	4
CFS 385U	Working with Diverse Families	4
CFS 390U	Sex and the Family	4
CFS 393U	Community Resources and Family Support	4
CFS 399	Special Studies	1-4
CFS 410	Selected Topics	1-8
CFS 410	Child Life	4
CFS 450	Youth and Youth Work	4
CFS 486	Parent and Family Education	4
Subtotal: 76		

All courses submitted to satisfy the requirements for a major in Child, Youth, and Family Studies must be passed with a grade of C or above. In addition, courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling program major requirements, with the exception of CFS 493.

CHILD, YOUTH, AND FAMILY STUDIES MINOR

REQUIREMENTS

Lower Division (4 credits)

Unst 228	Families in Society Sophomore Inquiry	4
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Community-based learning (6 credits)

Arranged in consultation with adviser; may be Capstone or Practicum	6
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Choose four of the following CYFS courses (16 credits)

CFS 101	Introduction to Child and Family Studies	2
CFS 310	Critical Histories in CYFS: Gender/Race/Class	4
CFS 312U	Families in Lifecourse Perspective	4
CFS 320U	ABCs of Early Childhood Education	4
CFS 330U	American Families in Film and Television	4
CFS 340U	Queer Families	4

CFS 350U	Interpersonal Violence: Impact on Children & Families	4
CFS 381U	Families, Stress, and Change	4
CFS 382U	Mental Disorders: Issues for Families and Communities	4
CFS 385U	Working with Diverse Families	4
CFS 390U	Sex and the Family	4
CFS 391	Family Theories	4
CFS 393U	Community Resources and Family Support	4
CFS 399	Special Studies	1-4
CFS 410	Selected Topics	1-8
CFS 450	Youth and Youth Work	4
CFS 481U	Family Health Issues	4
CFS 486	Parent and Family Education	4
CFS 487	Examining Bias and Belief	4
CFS 488	Structural Oppression	4
CFS 489	Activism for Social Change	2
CFS 492	Family Law and Policy	4

Note: CFS 310, CFS 391, CFS 487, CFS 488, CFS 489, CFS 492 require instructor approval and registration will be allowed based on enrollment.

Total Credit Hours: 26

RESEARCH CENTERS AND INSTITUTES

Center for Improvement of Child and Family Services (Child Welfare Partnership)

1600 SW 4th Ave., 4th floor

503-725-5023

Katharine Cahn, Executive Director

The Center for Improvement of Child and Family Services provides research, education and training to promote effective and equitable services to children and families. Working with agency and community partners, the Center's goal is a child and family service system that promotes the well-being of children, engages families, and builds community capacity to address emerging needs.

The Center was founded in 1994 as the Child Welfare Partnership (CWP), a statewide collaboration between Portland State University and the Oregon Department of Human Services (DHS), to offer training, research and social work education to improve Oregon's child welfare system. The CWP training program provides training for all new child welfare workers, supervisors, caregivers, and community partners. All training provided by the CWP is evaluated for quality assurance and measurement of impact. The Child Welfare Partnership's Education Program (CWEP) provides financial support and customized professional education for bachelor and master's level social work students committed to careers in child welfare and includes an evaluation of program impact. This program includes the Culturally Responsive

Leaders program, designed to prepare child welfare leaders to serve the growing diversity of child welfare clients. The Child Welfare Partnership's Waiver Research team studies the impact of an evolving range of family engagement practices in child welfare, and conducts independently funded research and evaluation to support child welfare reform in partnership with Oregon Child Welfare.

The partnership with DHS now includes training for the DHS Self Sufficiency Program, supporting Oregon citizens facing the challenges of poverty through training and program development consultation. The DHS partnership also supports training for children and youth involved in multiple systems, through the System of Care Institute.

The Center's System of Care Institute (SOCI) offers training, technical assistance and consultation using a community based, culturally responsive and family and youth-driven care lens. Currently SOCI is supporting the full implementation of Wraparound and System of Care across the state of Oregon and focusing on cross-system collaboration. The System of Care Institute also works in other states and tribes as requested, to promote System of Care, improvement of child-serving systems, and sustainable workforce development.

The Center's Early Childhood and Family Support Research Team works on a robust research agenda related to early childhood, child abuse prevention, family support and child welfare. This team provides program evaluation and community capacity building research across Oregon and nationally to promote family engagement, and early childhood support. A full menu of research projects is available on the website.

The Center promotes workforce development and innovation nationally through a collaboration with the National Child Welfare Workforce Institute (NCWWI), of the U.S. Children's Bureau. This national collaborative works across public, private, and tribal child welfare agencies to develop the skills to lead change, recruit and retain a diverse child welfare workforce, and build inclusive, collaborative, data-driven, and intentional organizational cultures.

For further information about all programs and projects, visit the Center website at <http://www.pdx.edu/ccf/>

Regional Research Institute for Human Services

1600 SW 4th Ave., Suite 900

503-725-4040

Mary Oschwald, Director

The Regional Research Institute for Human Services (RRI) was established in 1972 by the School of Social Work at Portland State University with a grant from the Social and

Rehabilitation Service within the office of Health, Education, and Welfare (HEW). The aim of the RRI is to improve the manner in which social services and service delivery systems are designed, managed, and evaluated. To inform social change initiatives, the RRI is prepared to examine all aspects of the complex process by which human service policies and services are developed and implemented. By bringing a range of consumers, family members, and researchers into its activities, the RRI creates new approaches to old problems. It strives to set high standards for applied social research and to provide a research environment for graduate training.

The RRI has undertaken more than 250 projects, many of them national in scope, in fields of child and adult mental health, family and child welfare, child care, employment, juvenile justice, alcohol and drug services, disability, and interpersonal violence. RRI projects range from large, multi-site federally funded grants, to research contracts with state and local governments, to program evaluations in collaboration with local community partners. The RRI is particularly well known for its innovative approaches in consumer-driven and community-engaged research. Over the last five years, total research expenditures for RRI projects have exceeded \$32 million.

The RRI is home to several centers with national scope and influence. Since 1984, when the Research and Training Center on Family Support and Children's Mental Health was initiated, the RRI has been a leader in the field of mental health research and education. The current Pathways to Positive Futures Research and Training Center continues the tradition with a focus on transition-aged youth. The RRI also hosts Trauma Informed Oregon (TIO), which serves as a centralized source of information and resources, and coordinates and provides training for healthcare and related systems. Since 2000, the national program office of Reclaiming Futures: Public Health, Justice, Equity, has been located in the RRI and promotes new standards of care in juvenile justice for young people with drug and alcohol problems, and its model for system change has been implemented in jurisdictions around the country.

For more information about RRI faculty, research projects, and publications, see <https://www.pdx.edu/regional-research-institute/>

Social Work

600 Academic and Student Recreation Center
1800 SW Sixth Ave.
503-725-4712
www.pdx.edu/ssw/

The School offers Bachelor of Arts in Social Work (B.A.) and Bachelor of Science in Social Work (B.S.) degrees. The BSW Program is accredited by the Council on Social Work Education. Two graduate degree programs are offered by the School of Social Work: a Master of Social Work (M.S.W.) degree, which is fully accredited by the Council on Social Work Education, and a Ph.D. degree in Social Work and Social Research.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree map and expected learning outcomes for Social Work's undergraduate degree, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Baccalaureate Social Work

Students must be admitted to the Baccalaureate Social Work (BSW) program in order to complete the requirements for the Bachelor of Arts or Bachelor of Science degree with a major in social work (B.A. or B.S.). Students are admitted as juniors (90 credits completed). Two cohorts will be admitted annually during spring term to start in the fall. One cohort will be admitted to our on campus Portland Program and a smaller cohort for our Hybrid (80% online) Program. Information on both options can be found on the website listed below. Additional information and an application form can be obtained by calling 503-725-4712, by writing Portland State University, School of Social Work, PO Box 751, Portland, OR 97207, or by visiting the School's Web site, www.pdx.edu/ssw/programs.

Applicants to the BSW program must have completed at least one course in psychology, 4 credit 200 level, and one in sociology, 4 credit 200 level. Applicants are also advised to take SW 301 Introduction to Social Work, since this course is designed in part to assist interested students in selecting social work as a profession. If applicants have not completed this requirement prior to admissions they must take it once they are enrolled in the major.

The application packet must include an application form, questions for a brief personal essay, two reference forms and letters and unofficial transcripts. Students will be required to attend an on campus orientation session prior to beginning their course of study. Orientation schedule information will be provided at the time of admission. Students must also read the BSW Program Handbook, which is available online at <https://www.pdx.edu/ssw/program-forms>.

Master of Social Work

Students are admitted once a year. Admission is selective; applications and all supporting materials must be submitted by the appropriate deadlines for consideration for admission in September. Early submission of application materials is encouraged. Further application information is available on-line through the school's website at: <http://www.pdx.edu/ssw/>.

The M.S.W. program of the School of Social Work is open to qualified graduates from colleges and universities of recognized standing. Undergraduate preparation should include a broad background in liberal arts and sciences including natural sciences, social sciences, and humanities. Competence in written and spoken English is important for social work practice. Students whose native language is not English should include the scores of the Test of English as a Foreign Language (TOEFL). Graduates of bachelor of social work (B.S.W.) programs accredited by the Council on Social Work Education may apply for advanced standing. Students who have completed up to one year of study toward the M.S.W. degree at another graduate school of social work accredited by the Council on Social Work Education may apply for admission and transfer of credits.

Students admitted to the master's program are required to be in continuous enrollment unless an approved leave of absence has been granted. A student who withdraws from the School must reapply.

For the M.S.W.-M.P.H. dual degree, students must submit separate applications to each program (the School of Social Work and either the School of Community Health or the Mark O. Hatfield School of Government, depending on the focus of study) and will need to meet the minimum requirements for each program. The MSW Program and the MPH Health Promotion track admit students in fall term, while the MPH Health Management and Policy track admits students every quarter. Additional guidelines for admissions for Social Work are at <http://www.pdx.edu/ssw/>, Health Promotion at <http://www.pdx.edu/sch/>, and Health Management and Policy at <http://www.pdx.edu/hatfieldschool/>.

It is possible to add a second program after beginning one program, if the student completes an application and is accepted by the second program during her/his first year in the entry program. Students must take classes in both programs at the same time for at least one term.

Doctor of Philosophy in Social Work and Social Research

Applicants for admission must have a master's degree in social work or a related field. Applicants must have writing ability and the capacity for creative and independent work. At least two years of practice experience in social work or a related field is recommended. Students must apply to and be accepted into the doctoral program and be admitted to the University as a

graduate student. As part of the admission procedure, students must furnish:

- transcripts of undergraduate and graduate studies;
- scores for the Graduate Record Examination (GRE);
- an example of scholarly writing;
- names of three references, two of whom must be academic;
- a personal statement; and
- a resume

Students whose native language is not English should include the scores of the TOEFL, IELTS or PTE-Academic exam scores. Application materials for the Ph.D. program are available through the school's Web site at: www.pdx.edu/ssw/.

Application must be made by January 15; admission to the program is for the fall term only.

Residence

Three consecutive terms must be spent in full-time residence (9 credit hours or more) on campus. The minimum credit hour requirement for the Ph.D. is 90, of which at least 27 must be devoted to the dissertation. See the Portland State University general doctoral degree requirements (p. 54).

SOCIAL WORK B.A./B.S.

The Baccalaureate Social Work (BSW) Program is fully accredited by the Council on Social Work Education (CSWE). The BSW Program prepares students to become entry-level professional generalist social workers to work in a variety of settings with client systems in different communities.

The BSW Program Mission statement states: The BSW Program promotes commitment to well-being, self-determination, and social and economic justice in our communities. The educational experience prepares professional, entry-level, generalist social workers to provide competent, effective, and values/ethics-based services with diverse individuals, families, groups, organizations, and communities. This mission builds on the tradition and history of Portland State University as an urban, public access institution.

The BSW Program Goals are:

1. To provide a public access program with the goal of preparing generalist social workers who are informed and effective leaders in challenging injustice and promoting social and economic justice.
2. To prepare generalist social workers to practice competently with individuals, families, and groups through promoting well-being and self-determination.

3. To prepare generalist social workers to assume the role of change agent regarding issues, policies, and community needs that affect individuals, families, groups, organizations, and communities.
4. To prepare generalist social workers able to work with a diversity of populations, integrating values, ethics, empirically informed practice, and service user input.
5. To provide a foundation for advanced study in social work and prepare generalist social workers to be reflective practitioners and lifelong learners.

Students enter the BSW Program as a “cohort” of learners. The cohort model provides a place for peer support, sharing of ideas, and resources. Students also have BSW advisors to support their academic and other educational needs. The curriculum prepares students with the social work knowledge, values, and skills to provide effective services to individuals, families, groups, and communities in diverse settings. The curriculum is based on a liberal arts foundation. In accordance with CSWE requirements, the BSW Program does not give credit for prior work experience and/or life experience. It is designed on the 10 competencies and practice behaviors from the Council on Social Work Education (CSWE). The BSW major courses are taken within a two-year timeframe over six terms. The courses include social work history, social welfare policy, generalist social work practice, research, human behavior and the social environment, social justice theory and practice and diversity electives. Students complete three terms of field education supervised by a qualified social worker. Students complete a 500 hour field practicum in conjunction with their practice courses and a field seminar. The field practicum provides students with the direct application of their knowledge, values, and skills in a variety of community agencies and settings. Students complete a senior portfolio which synthesizes and integrates their entire learning in the program and can serve as a gateway for employers to learn about their educational experiences and knowledge from a social work perspective. This course allows graduating seniors to discuss and showcase their work from the BSW Program and continues to prepare them for professional careers in generalist social work settings. Many of the seniors will utilize this portfolio for interviewing with potential employers. Students who graduate from the BSW Program are prepared to become active social justice change agents ready to provide professional generalist social work competency-based knowledge, values, and skills to the community.

REQUIREMENTS

In addition to meeting the general University requirements for a Bachelor of Arts or Bachelor of Science degree, majors must complete the following program components:

Field Placement (12 credits)

Students are required to take SW 400 Field Placement and Seminar I-III over three academic terms for a total of 12 credits.

Required Upper Division Social Work Courses (39 credits)

SW 301U	Introduction to Social Work	4
SW 339	Introduction to Oppression and Privilege	4
SW 340	Advocacy for Policy Change	4
SW 341	Social Justice Practice	4
SW 350	Human Behavior Through the Lifespan	4
SW 351	Beginning Generalist Practice	4
SW 430	Generalist Practice with Groups	3
SW 431	Generalist Practice with Individuals and Families	3
SW 432	Generalist Practice with Communities and Organizations	3
SW 450	Social Work Research and Evaluation I	3
SW 451	Social Work Research and Evaluation II	3

Diversity Electives (12 credits)

Students must choose one course from each of three lists of courses: (a) Culture/History; (b) Family/Gender/Sexuality; and (c) Race/Class/Identity. Prospective students may consult a complete list of approved courses under each topic area at the School’s Web site, www.pdx.edu/ssw/, where undergraduate program requirements are included in an on-line B.S.W. Student Map.

Upper Division Program Electives (12 credits)

Choose from a list; see adviser.

Subtotal: 75

SOCIAL WORK M.S.W.

The Master of Social Work (M.S.W.) program at Portland State University is fully accredited by the Council on Social Work Education (CSWE).

MSW Program Mission

The mission of the Portland State University MSW program is to educate students for advanced leadership and practice that recognizes and dismantles systems of oppression; builds racial equity and social, political, and economic justice; and advances the well-being of diverse individuals, families, groups, organizations, communities, and tribal nations. We endeavor to deliver a social work education that is critically informed, theoretically driven, empirically supported, reflexive, ethical, vigilant and resistive to colonial, heteropatriarchal, classist, and white supremacist agendas.

MSW Program Goals:

The MSW Program mission is realized by providing a statewide program that prepares social workers for practice and leadership with diverse individuals, families, groups, communities and organizations.

The goal is to prepare MSW social workers to:

- - Provide advanced practice and leadership in healthcare and aging, clinical mental health, services to children, youth and families, communities, and/or organizations
 -
 - Practice effectively with individuals, groups, families and communities to improve their well being
 -
 - Demonstrate a professional use of self and a commitment to practice within social work values and ethics
 -
 - Engage in critically informed, non-discriminatory, collaborative practice that addresses/challenges oppression and reflects respect, knowledge, and skills related to race, color, ethnicity, culture, social and economic class, sex, gender identity, sexual orientation, marital status, family structure, language, national origin, age, disability, and religion
 -
 - Use knowledge of systemic oppression and privilege, community and organizational change processes, and practice skills to advance social and economic justice
 -
 - Analyze, formulate, and influence policies to improve practice and advance social and economic justice
 -
 - Use practice experience, empirical evidence, and theory to guide practice
 -
 - Develop a plan and motivation for continued professional development, learning, and growth to enhance their social work skills and to contribute to the social work profession's efforts to advance social justice after graduation.
- The master's program offers students five courses of study: (1) a traditional full-time two-year course option; (2) a part-time three- or four-year option in Portland; (3) an advanced standing one-year option in Portland; (4) a part-time three-year distance options in Salem, Ashland, Eugene, Bend; and (5) a part-time three-year online option.

The curriculum combines concurrent on-campus coursework and field work in a range of human service organizations. Typical practice settings are mental health programs, public welfare and human service agencies, schools, hospitals and health care centers, courts, family service agencies, correctional services, community planning agencies, legislative offices, child and youth service agencies, neighborhood centers, multicultural service centers, and programs for older adults.

To ensure a common base for social work practice, the faculty has identified a required generalist foundation curriculum to be completed by all students in the MSW Program, except those admitted to advanced standing. This coursework focuses on the knowledge, values, skills and behaviors related to work with individuals, families, groups, communities and organizations. Three terms of concurrent generalist field internship are an integral part of this foundation.

The advanced curriculum includes advanced concentrations, advanced field internship and electives. Students in the Portland option have the choice of four concentration areas: Health Across the Lifespan; Children, Youth, and Families; Clinical Social Work Practice; and Practice and Leadership with Communities and Organizations. The electives provide opportunities for students to have a deeper learning experience with a specific population, problem or intervention.

The M.S.W. Distance Option (DO) program offers an advanced concentration in Clinical Social Work. In fall 2018, a new cohort of students will begin in Salem and Ashland. The Bend and Salem sites will each have a cohort in their final year. The Eugene cohort will begin their second year.. While the first year of distance learning is course work only, second year and third year students have 16 hour per week field internships in or near their home communities. The Ashland and Bend programs offer all classes on site. First year classes for Eugene and Salem are held on the PSU campus in Portland, and second and third year classes occur on site. The Salem and Ashland sites will recruit new students for fall 2019.

The M.S.W. Online program offers two advanced concentrations: Practice and Leadership with Communities and Organizations and Health Across the Lifespan. Course instruction is exclusively online using asynchronous and synchronous delivery methods, though students will be expected to come to campus for a two-day orientation at the beginning of each academic year. Required courses are offered during the academic year and electives are offered in the summer. The first year of the program is course work only, while the second year and third year students have 16 hour per week field internships in or near their home communities, in addition to taking their courses.

Students admitted to the Advanced Standing option have a BSW from a CSWE accredited school of social work, and

complete the advanced year of the curriculum over the course of one year.

Students in the MSW program have the ability to pursue a dual degree or certificate in specialized areas of practice.

Students may combine the M.S.W. with a Masters in Public Health (M.P.H.) by applying to both programs.

Students may obtain the M.S.W. with a certificate in gerontology through the Institute on Aging by completing specialized courses and field placement.

Students may also pursue licensure as a school social worker by completing a specialized set of courses and field placement.

Information about these dual degree and certificate programs is available on our website
<http://www.pdx.edu/ssw/>.

REQUIREMENTS

The M.S.W. is a 78 credit program comprised of foundation and advanced coursework.

Foundation Coursework

The foundation coursework can be satisfied in one of two ways:

1. Completion of a B.S.W. degree accredited by the Council on Social Work Education, plus 7 credits of bridge courses taken during the summer at PSU

SW 513	Research Methods for Social Work Advanced Standing Students	3
SW 589	Advanced Standing Seminar	4
2. Completion of a 39 credit graduate foundation course sequence at PSU, which includes the following courses

SW 511	Foundation Field Placement and Seminar	1-4
SW 515	Skills for the Helping Process - Groups	3
SW 520	Social Welfare History and Policy	3
SW 530	Skills for the Helping Process – Individuals and Families	3
SW 532	Advocacy and Empowerment	3
SW 539	Social Justice in Social Work	3
SW 540	Human Development Through the Lifespan	3
SW 541	Societal, Community and Organizational Structures and Processes	3
SW 550	Research and Evaluation I	3
SW 551	Research and Evaluation II	3

Advanced Coursework

The advanced coursework involves an additional 39 credits of advanced graduate courses.

- 9 credits (3 credits per term) in one of the advanced concentrations
 - Clinical Social Work Practice (SW 533, SW 534, and SW 535)
 - Practice and Leadership with Communities and Organizations (SW 593, SW 594, and SW 595)
 - Social Work with Children, Youth, and Families (SW 586, SW 587, and SW 588)
 - Health Across the Lifespan (SW 517, SW 518, and SW 519)
- 12 credits SW 512 Advanced field placement (4 credits each of three terms)
- 18 credits of advanced electives in their area of interest

Students may not receive credit for life experience, previous work experience, nor have any field experience or professional foundation courses waived on this basis.
 Subtotal: 78

SOCIAL WORK AND SOCIAL RESEARCH PH.D.

The School of Social Work offers the Ph.D. in Social Work and Social Research to educate the next generation of scholars, researchers, teachers and leaders in social work and related fields. The program prepares students to contribute to scholarly knowledge, conduct ethical, rigorous, and community-engaged research, and teach passionately and effectively in various settings--all with special attention to equity and justice. The Regional Research Institute for Human Services and the Center for the Improvement of Child and Family Services are major resources for the program.

Coursework includes core social work courses, required research electives, and selected substantive area electives. The core social work classes are taught seminar style, providing students with experiences of engagement in discussions about complex ideas and diverse viewpoints. The elective courses can be taken in other academic units based on each student's individualized study plan. Following completion of required and elective courses the student must pass written and oral comprehensive examinations before defending a dissertation proposal, conducting independent research and a final dissertation defense.

REQUIREMENTS

Each doctoral student is required to select a social problem for study and become knowledgeable about relevant theories and proficient in the methodologies appropriate for scholarly inquiry of the problem.

Core requirements for the course of study are designed to ensure knowledge and skills in the history, theory, and organization of societal responses to social issues; quantitative and qualitative research methods and statistics; and expertise in a cognate area relevant to the social problem or method of inquiry through course work outside of the School of Social Work. Students also are required to enroll in a research practicum under the direction of an approved qualified supervisor. A teaching practicum may be elected. Each student's program of study will be individually planned and approved. Students in the first and second years of the program are required to attend the Ph.D. seminar each quarter.

Core Courses (31 credits)

SW 620	Substantive Area Conceptualization	3
SW 622	Substantive Area Investigation	3
SW 626/PHE 626	Teaching and Learning in Health Promotion & Social Work	3
SW 630	Philosophy of Science for Social Sciences	3
SW 637/Psy 637	Qualitative Research Methods for Social Inquiry	4
SW 640	Research Practicum and Seminar	1-3
SW 650	History of Social Work Profession/al	3
SW 660	Ph.D. Seminar – First Year	1
SW 661	Ph.D. Seminar – Second Year	1
SW 690	Teaching Practicum and Seminar	3

SW 660 and SW 661 must be taken 3 times each for a total of 6 credits.

Required Elective Courses (16 credits)

Appropriate interdisciplinary social science research methods courses	16
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Other Electives (16)

Appropriate courses in student's substantive area of focus	16
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Dissertation (27 credits)

Subtotal: 90

Comprehensive examination

A written comprehensive examination is taken after completion of required coursework.

Dissertation

After successful completion of the comprehensive examinations, the dissertation chairperson and committee are appointed. The student develops a dissertation proposal that is defended orally before the dissertation committee. When the proposal has been approved by the dissertation committee and by the University Human Subjects Research Review committee, the student is considered a candidate for the Ph.D. in Social Work and Social Research. A dissertation must be completed following the outlines of the approved proposal. Students must maintain continuous registration while engaged in dissertation research.

Final examination

At the conclusion of doctoral work, the student defends the completed dissertation before the dissertation committee and other interested faculty and doctoral students. The student is expected to demonstrate knowledge of the topic selected for study and to show that the dissertation is a contribution to knowledge in the social problem area.

COLLEGE OF URBAN AND PUBLIC AFFAIRS

Stephen L. Percy, Ph.D., Dean
 Sy Adler, Ph.D., Associate Dean
 Robin Michell, B.S., Assistant Dean

750 Urban Center, 503-725-4043

www.pdx.edu/cupa/

The College of Urban and Public Affairs joins the disciplines of urban studies, public administration, criminology & criminal justice, political science, economics, and international & global studies under one roof. Just outside the doors of the Urban Center—in one of the nation's most innovative urban regions—our students and faculty fuse theory and practice into solutions for the common good. Our students and faculty collaborate with community organizations, imagine original solutions, and implement them in real-time. Upon graduation, our students are equipped to improve the livability of their communities.

In a state where land-use planning, transportation, environmental aspects of urban growth, community policing, low-income housing, solid waste recycling, and community engagement are a model for the nation, our urban location provides the perfect applied laboratory for the college's groundbreaking work.

Nohad A. Toulan School of Urban Studies and Planning

The Toulan School of Urban Studies and Planning is the nation's oldest continuously operating instructional program in urban studies. Graduates can be found in public, private, and nonprofit planning offices throughout North America and around the globe. The mission of the school is to assist in the development of healthy communities through an interdisciplinary program of teaching, research, and public service.

Mark O. Hatfield School of Government

The Mark O. Hatfield School of Government is one of the largest public policy schools in the country. It includes the departments of Criminology and Criminal Justice, Political Science, and Public Administration. Our nationally-ranked programs in public administration, nonprofit management, political science, and criminology & criminal justice help prepare students to improve the way we govern and lead. Faculty and students of the Hatfield School are involved in an impressive range of community collaborations around public policy and administration, civic leadership, and criminal justice.

Department of International and Global Studies

The Department of International and Global Studies offers a B.A. degree based on an interdisciplinary curriculum that

provides both a global perspective and a comprehensive view of a selected geographic region of the world. Students can choose to select a degree in International Studies or choose the International Development studies track. This degree offers an excellent foundation for careers in which an understanding of international economic, political, social, historical, and cultural affairs is important; it also provides a solid foundation for graduate work in the field.

Department of Economics

The mission of the Department of Economics is to provide high-quality graduate and undergraduate education while generating top-notch applied and theoretical research that garners national recognition within a supportive academic community. The department offers a wide range of courses and a variety of academic degrees, including bachelor's degrees, a masters degree, and a four-course Graduate Certificate in Environmental and Natural Resource Economics. The department also sponsors year-round seminars for students that address crucial policy-oriented and theoretical topics.

- Advanced Crime Analysis Certificate
- Certificate in Applied Social Demography
- Graduate Certificate in Collaborative Governance
- Criminal Behavior Certificate
- Post-Baccalaureate Certificate in Criminology & Criminal Justice
- Graduate Certificate in Energy Policy and Management
- Graduate Certificate in Environmental and Resource Economics
- Leadership in Criminal Justice Certificate
- Graduate Certificate in Nonprofit and Public Management
- Professional Certificate in Nonprofit Fundraising
- Professional Certificate in Nonprofit Program Evaluation
- Graduate Certificate in Real Estate Development
- Graduate Certificate in Sustainable Food Systems
- Graduate Certificate in Transportation
- Graduate Certificate in Urban Design
- Certificate in Tribal Relations
- Graduate Certificate in Gerontology

- Certificate in Global Studies; Asia; Europe; Latin America; Middle East
- Certificate in Contemporary Turkish Studies

- Minor in Civic Leadership
- Minor in Community Development
- Minor in Criminology and Criminal Justice
- Minor in Law and Legal Studies
- Minor in Political Science
- Minor in International Studies
- Minor in Economics
- Minor in International Economics
- Minor in Political Economy

- B.A., B.S.—Criminology and Criminal Justice
- B.A., B.S.—Community Development
- B.A., B.S.—Political Science
- B.A., B.S.—Political Science: International Development
- B.A., B.S.—Political Science: Public Service
- B.A., B.S.—Urban and Public Affairs
- B.A., B.S.—Economics
- B.S.—Quantitative Economics
- B.A.—International Studies: Africa
- B.A.—International Studies- East Asia
- B.A.—International Studies- Europe
- B.A.—International Studies- Latin America
- B.A.—International Studies- Middle East
- B.A.—international Studies- Development
- Combined Undergraduate/Graduate Program: B.S.—Quantitative Economics
- and M.S. in Economics
- M.S.—Criminology and Criminal Justice
- M.A., M.S.—Economics
- E.M.P.A.—Executive Master of Public Administration
- M.A., M.S.—Political Science
- M.P.A.—Nonprofit Management
- M.P.A.—Natural Resource Policy and Administration
- M.P.A.—Local Government

- M.P.A.—Global Leadership and Management
- M.P.A.—Human Resource Management
- M.P.A.—Health Management and Policy
- M.P.A.—Health Administration
- M.P.P.—Master of Public Policy
- M.R.E.D.—Master of Real Estate Development
- M.U.R.P.—Master of Urban and Regional Planning
- M.U.S.—Master of Urban Studies
- Ph.D.—Public Affairs and Policy
- Ph.D.—Urban Studies, Urban Studies: Regional Science

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Undergraduate programs

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for the College of Urban and Public Affairs undergraduate degree, go to www.pdx.edu/academic-programs/undergraduate-programs.

DEGREE REQUIREMENTS

Requirements for majors

In addition to the general University degree requirements, students in urban and public affairs must complete the following degree requirements. Substitution of coursework is acceptable only by permission from the School.

URBAN AND PUBLIC AFFAIRS B.A./B.S.

PROGRAM REQUIREMENTS

Required courses (24 credits)

Students must complete 6 courses representing at least 3 of the 7 academic disciplines listed below:

CCJ 200	Criminology and Criminal Justice	4
CCJ 230	Policing in America	4
	or	
CCJ 240	Punishment and Corrections	4
CCJ 330U	Crime Control Strategies	4
PA 311U	Introduction to Civic Engagement	4
PA 312U	Foundations of Community Leadership	4
PA 313U	Fundamentals of Public Service	4

PS 101	United States Government or	4
PS 102	United States Politics	4
PS 204	Comparative Politics or	4
PS 205	International Politics	4
PS 431	State and Local Politics	4
USP 300U	Introduction to Urban Studies	4
USP 301	Introduction to Community Development	4
USP 311U	Introduction to Urban Planning	4
PHE 350	Health and Health Systems	4
PHE 446U	Community Health Principles and Practices	4
PHE 250	Our Community: Our Health	4
Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4
Ec 332U	Economics of Environmental Issues	4
Intl 201	Introduction to International Studies	4
Intl 396	The United States and the World	4
Intl 397	US Policy and International Development	4

Elective courses (20 credits)

Choose 5 courses with no more than 3 courses from CCJ, PA, PS, USP, PHE, Ec, or Intl. All of the 20 required credits must be from upper-division (300- or 400-level) courses.

Internship/field experience (4 credits)

Choose an approved course from any participating academic unit to complete in senior year.

Dean's seminar (4 credits)

The Dean's seminar is to be completed in senior year.

Research skills course (4 credits)

Complete a pre-identified and approved research methods, statistics, or data analysis course from any of the participating academic units.

Subtotal: 56

Students will be expected to receive a "C" or better in all required coursework. At least 9 upper-division courses must be taken as part of the 56 credits; further, at least 24 of the required 56 credits must be taken at PSU.

Economics

241 Cramer Hall (CH)
503-725-3915
503-725-3945 (fax)

www.pdx.edu/econ
econ@pdx.edu

Undergraduate Programs

- B.A., B.S.
- B.S. in Quantitative Economics
- Departmental Honors
- Minor in Economics
- Minor in International Economics
- Minor in Political Economy

Graduate Programs

- M.A., M.S.
- Graduate Certificate in Environmental and Resource Economics
- Graduate Certificate in Econometric and Data Analysis

Combined Undergraduate/Graduate Program

- B.S.Q.E. + M.S.

Economics participates in the following programs:

- Ph.D. in Public Administration Policy
- Graduate Certificate in Energy Policy and Management
- Graduate Certificate in Sustainability
- Urban Honors
- Secondary Education Program—Social Science
- M.S.T. and M.A.T. (General Social Science)

Undergraduate programs

Economics majors are advised to contact the department undergraduate advisor for assistance with planning an individualized program of study. Economics majors who are considering graduate school will need to tailor their undergraduate program for this purpose and should seek advice prior to the start of their junior year. It is strongly recommended that students interested in graduate school pursue a B.S. in Quantitative Economics.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Economics' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University.

ECONOMICS B.A./B.S.

REQUIREMENTS

The BA and BS in Economics serve as the core of a liberal arts program and provide the fundamentals of economic analysis for students seeking a professional career in business or government.

In addition to meeting general university degree requirements, students must satisfy the following departmental requirements:

Economics Core

Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4
Ec 311	Microeconomic Theory	4
	or	
Ec 415	Microeconomic Theory with Calculus	4
Ec 312	Macroeconomic Theory	4

Subtotal: 16

One of the following

Ec 456	American Economic History: the First Century	4
Ec 457	American Economic History: the 20th Century	4
Ec 460	History of Economic Thought	4
Ec 469	Introduction to Econometrics	4

Subtotal: 4

Economics Electives (28 credits)

Up to 12 credits may be below EC 410; 16-28 credits must be numbered EC 410 and above.

Ec 380 may be used to satisfy the requirement for courses numbered EC 410 and above.

Students may not use EC 415 as an economics elective.

Subtotal: 28

Mathematics and Statistics

Mth 251	Calculus I	4
Stat 243	Introduction to Probability and Statistics I	4
Stat 244	Introduction to Probability and Statistics II	4

Subtotal: 12

Subtotal: 60

Majors must take a minimum of 24 credits of upper division (300 and above) coursework in residence from this department and must maintain at least a 2.00 grade point average in work completed in this department.

All courses used to satisfy the departmental major requirements, whether taken in the department or elsewhere, must be taken for a letter grade and must be graded C- or above. Ec 403 Honors Thesis cannot be used to satisfy the requirements for the major in economics. Up to 4 credits of Ec 418 may be counted as upper division credit in the major.

B.S. QUANTITATIVE ECONOMICS

REQUIREMENTS

The B.S. in Quantitative Economics requires a total of 79 credit hours, 28 for core courses, 28 for economics electives, and 23 for math/statistics courses. The curriculum is designed to prepare students for entry into a Masters of Economics program but it is also an excellent choice for those wishing to go directly into employment or a graduate program in another field.

Economics Core

Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4
Ec 415	Microeconomic Theory with Calculus	4
Ec 312	Macroeconomic Theory	4
Ec 380	Introduction to Mathematical Economics	4
Ec 460	History of Economic Thought	4
Ec 469	Introduction to Econometrics	4

Subtotal: 28

Math/Statistics

Mth 251	Calculus I	4
Mth 252	Calculus II	4
Mth 261	Introduction to Linear Algebra	4
Mth 254	Calculus IV	4
Stat 451	Applied Statistics for Engineers and Scientists I	4
Stat 452	Applied Statistics for Engineers and Scientists II	3

Subtotal: 23

Economics Electives

A minimum of 28 credits of 300- and 400-level coursework in economics in addition to the required core courses. At least 16 of these credits must be in courses numbered 410 and above. Up to 4 credits of Ec 418 may be counted as upper-division credit in the major. Ec 311 cannot be used as an economics elective.

Subtotal: 28

Quantitative Economics majors must take a minimum of 24 credits of upper-division coursework (courses numbered 300 and above) in residence from this department and must maintain at least a 3.0 grade point average in work completed in this department. All courses used to satisfy the departmental major requirements, whether economics, mathematics or statistics, must be taken for a letter grade and must be graded C- or better. Ec 403 (Honors Thesis) cannot be used to satisfy the requirements for the BS in Quantitative Economics. Up to 4 credits of Ec 418 may be counted as upper division credit in the major.

Total Credit Hours: 79

ECONOMICS DEPARTMENTAL HONORS PROGRAM

Departmental Honors is separate from Urban Honors and is administrated within the Economics Department.

The Departmental Honors Program allows outstanding majors in the Department of Economics to conduct research with a faculty member and to receive recognition for their exceptional performance. Honors students participate in faculty research projects or pursue an independent honors thesis under faculty guidance. Applicants are required to have earned a minimum GPA of 3.50 in economics courses at the time of application.

To earn Departmental Honors, interested students should apply to the undergraduate advisor after completing Ec 201, Ec 202, Ec 311 or Ec 415 and Ec 312. It is recommended that students either complete Mth 251, Stat 243, Stat 244 and one of the following: Ec 456, Ec 457, Ec 460, Ec 469 OR that they enroll concurrently in these courses while working on the Departmental Honors program. Students admitted to the Departmental Honors complete the following requirements:

- 8 credits of Ec 403 which cannot be used to satisfy the requirements for the BA/BS in economics.
- A written thesis to be completed during the final term of enrollment in Ec 403.

- Presentation of the thesis during the final term of enrollment in Ec 403 fulfills the requirements for Departmental Honors.

ECONOMICS MINOR

Minors in Economics are only available to students majoring outside the department.

REQUIREMENTS

Students complete 28 credits in economics (12 credits of which must be taken in residence at PSU), to include the following:

Courses

Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4
	Upper-division economics electives	20

Courses must be taken for a letter grade and must be graded C- or above.

Subtotal: 28

INTERNATIONAL ECONOMICS MINOR

REQUIREMENTS

Students complete 28 credits in economics (12 credits of which must be taken in residence at PSU), to include the following:

Courses (16 credits)

Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4
Ec 340	International Economics	4
Ec 350U	Economics of Developing Countries	4

Subtotal: 16

Upper-division economics electives chosen from: (12 credits)

Ec 440	International Trade Theory and Policy	4
Ec 441	International Monetary Theory and Policy	4
Ec 442	The Multinational Enterprise in the World Economy	4
Ec 445	Comparative Economic Systems	4
Ec 447	Economics of Transition	4
Ec 448	East Asian Economic Development	4
Ec 450	Economics of Development	4

Subtotal: 12

Courses must be taken for a letter grade and must be graded C- or above.

Subtotal: 28

POLITICAL ECONOMY MINOR

REQUIREMENTS

Student must complete 28 credits in economics (12 credits of which must be taken in residence at PSU), to include the following:

Courses

Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4
Ec 460	History of Economic Thought	4

Subtotal: 12

Economics electives chosen from: (16 credits)

Ec 345	Marxist Political Economy	4
Ec 417	Women in the Economy	4
Ec 419	Economics of Race and Ethnicity	4
Ec 445	Comparative Economic Systems	4
Ec 446	Institutional Economics	4
Ec 447	Economics of Transition	4
Ec 450	Economics of Development	4

Subtotal: 16

Courses must be taken for a letter grade and must be graded C- or above.

Subtotal: 28

Graduate programs

The Department of Economics offers graduate work leading to the Master of Science and Master of Arts degrees, as well as a Graduate Certificate in Environmental and Resource Economics.

ADMISSION REQUIREMENTS

Master of Science or Master of Arts

Admission to the Master's program in the Department of Economics is online at <https://www.pdx.edu/graduate-admissions>. In addition to the University admissions requirements, department requirements are:

1. GPA Requirements: Admission to the Economics program is highly competitive and requires a minimum of a 3.00 GPA in overall undergraduate coursework.
2. Coursework: Undergraduate courses in Intermediate Microeconomics, Intermediate Macroeconomics, Statistics, Econometrics and Multivariate Calculus, as well as Linear Algebra, are required for admission.
3. Testing: Minimum GRE scores of 300 (quantitative and verbal combined). Request that Educational Testing Services (ETS) send a copy of your scores to 4610

(Portland State University). The GMAT with a score of 520 or higher may be considered in lieu of the GRE.

The TOEFL or IELTS is required for University admission for international students, unless they have a degree from a university in Australia, English-speaking Canada, Great Britain, Ireland, New Zealand or the U.S. See University minimum TOEFL or IELTS requirements at <https://www.pdx.edu/graduate-admissions/english-language-proficiency>

4. Recommendations: Three (3) letters of recommendation, at least two of which must be from economics professors.
5. Statement of Purpose: Approximately 500-word essay on goals and aspirations for entering and completing the graduate program.
6. Application/Transcripts: Transcripts from ALL other institutions (other than PSU) you have attended. If you are admitted to the program, you will need an official transcript sent directly from your other institutions to the Office of Graduate Studies.

ECONOMICS M.S./M.A.

The Master of Arts has the same requirements as a Master of Science, but Master of Arts has an additional requirement of a foreign language. Students must complete a nine-course core requirement (36 credits), with 48 credits in total. Credit requirements beyond the core courses may be satisfied entirely with economics elective courses or partially with a maximum of 8 credits of economics research. Students have two options for completing the economics electives and/or research requirement:

1. select 12 credits of economics electives.
2. select 4 (maximum 8) credits of economics elective courses and 8 (minimum 4) credits of research to be completed in any combination of Ec 501, Ec 596 and Ec 597.

Economics elective courses may be substituted by graduate courses from other departments with *prior* Department of Economics approval.

REQUIREMENTS

Core economics courses (36 credits)

Ec 560	History of Economic Thought	4
Ec 570	Econometrics	4
Ec 571	Advanced Econometrics	4
Ec 575	Applied Advanced Econometrics	4
Ec 580	Mathematical Economics	4
Ec 581	Advanced Microeconomics	4
Ec 584	Applications of Advanced Microeconomic Theory	4
Ec 590	Advanced Macroeconomics	4

Ec 592	Applications of Advanced Macroeconomic Theory	4
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Economics electives and/or Economics Research (12 credits)

Option I: Economics Electives (12)

Option II: Economic Electives (4-8) and Economics Research (4-8)

Subtotal: 48

Students with questions concerning transferred credits should contact the Graduate adviser.

GRADUATE CERTIFICATE IN ENVIRONMENTAL AND RESOURCE ECONOMICS (G.C.E.R.E.)

The Graduate Certificate in Environmental and Resource Economics requires 16 credits of graduate coursework. The certificate provides students with an understanding of the critical linkages between economics and key environmental issues. It also offers an introduction to the most important analytical tools, including cost-benefit analysis. Students will develop a solid understanding of the major local, national and global environmental challenges, provide insights into how markets allocate natural resources and the market and government "failures" associated with the environment and will be introduced to some of the tools used to analyze the effects of alternative resource and environmental regulations and policies.

REQUIREMENTS

Prerequisite economics course (4 credits)

Must be taken at PSU.

Ec 201	Principles of Microeconomics	4
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Core economics courses (12 credits)

Ec 522	Economics of Sustainability: Theory and Practice	4
Ec 527	Cost-Benefit Analysis	4
Ec 530	Resource and Environmental Economics	4

Subtotal: 12

Graduate Elective course (4 credits)

Any graduate Economics course numbered 511/611 or above is automatically approved as an elective. Appropriate courses from other departments can be applied to the electives requirement with advance approval of the Graduate Program Director.

Economics Courses

Ec graduate level elective	4
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Though any Economics course fulfills the elective requirement, the following environmental and resource economics courses may be offered:

- Ec 532 Advanced Environmental Economics
- Ec 533 Resource Economics
- Ec 534 Business Environmental Management
- Ec 537 Public Utility Economics
- Ec 543 Global Environmental Economics

Other Courses

Other graduate level elective	4
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Courses from other department can be applied to the electives requirements with prior approval of the Graduate Program Director.

Subtotal: 16

Total Credit Hours: 16

GRADUATE CERTIFICATE IN ECONOMETRIC AND DATA ANALYSIS

The Graduate Certificate in Econometric and Data Analysis consists of four 4-credit courses for a total of 16 credits. There are three required courses and one elective course. The curriculum is designed to allow students to complete the certificate in one academic year.

REQUIREMENTS

Econometrics Core Sequence

Ec 570	Econometrics	4
Ec 571	Advanced Econometrics	4
Ec 576	Implementing Econometrics using Stata and R	4

Note: Ec 570 is a prerequisite for Ec 571. However, Ec 576 can be taken out of sequence.

Elective Course

Any graduate course numbered Ec 511 and above may satisfy the elective requirement. Elective courses should be selected in consultation with the Graduate Program Director as advance approval may be required.

Combined Undergraduate and Graduate Degree

B.S. IN QUANTITATIVE ECONOMICS+MASTER OF SCIENCE (B.S.Q.E.+M.S.)

Students in the B.S. in Quantitative Economics program may be admitted directly into the M.S. in Economics program and "share" 15 credits of graduate level credit with the B.S.Q.E. and M.S. in Economics.

ADMISSIONS CRITERIA

- Program is only available to PSU students already in the B.S.Q.E. major.
- B.S.Q.E. majors may apply for the B.S.Q.E.+M.S. program upon earning junior status if on track to complete at least 165 undergraduate credits before starting the Master's theory sequence in Fall term. To plan a program of study, students should consult with the Economics undergraduate adviser in their junior year.
- Candidates for the B.S.+M.S. program should apply online to the M.S. program by submitting a graduate application through the Office of Graduate Studies. Prior to beginning the application process, students are strongly encouraged to contact the graduate adviser.
- As part of the graduate application process, applicants will not be required to submit GRE scores provided they satisfy the following requirements:
 - A GPA of 3.5 or above for all economics classes
 - A PSU institutional GPA of 3.3
 - 500-level courses must be graded B or better
 - All undergraduate economics courses must be graded C- or better
 - No P/NP credit in required economics, mathematics and statistics classes
 - Department residency requirement of 24 undergraduate economics credits taken at PSU satisfied
 - PSU residency requirement for 45 of last 60 credits taken at PSU satisfied

International and Global Studies

341 East Hall (EH)
725-3455
www.pdx.edu/intl

- B.A.
- Minor
- Certificate in African Studies
- Certificate in Asian Studies
- Certificate in European Studies
- Certificate in Global Studies
- Certificate in Latin American Studies
- Certificate in Middle East Studies
- Certificate in Contemporary Turkish Studies

The Department of International and Global Studies offers a B.A. degree based on an interdisciplinary curriculum that provides a global perspective, and multiple tracks for

students to pursue their particular interests through either thematic or regional tracks. This degree offers an excellent foundation for careers that require a comprehensive understanding of international affairs, including economics, politics, development and culture. This major provides a solid foundation for graduate work in the field.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for International Studies' undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

INTERNATIONAL STUDIES B.A.

The International Studies major offers two thematic tracks and five regionally-focused tracks.

REQUIREMENTS FOR REGIONAL FOCUS TRACKS

Five regions of concentration are available: Africa, Asia, Europe, Latin America and the Middle East. Majors doing a regional track must complete a core curriculum of international studies courses; an individualized curriculum of connected learning courses; and courses in their areas of geographic concentration, to include:

Core Courses (24 credits)

Intl 201	Introduction to International Studies	4
Intl 2xx	Introduction to Regional Studies	4
Intl 390	Foundations of Global Studies	4
Intl 396	The United States and the World	4
Intl 407	Seminar	4
Intl 471/Ling 471	Understanding the International Experience	4

Intl 2xx: Students may double count Intl 2xx for the major and University Studies Sophomore Inquiry; a mentor section is required.

Connected Learning (20 credits)

At least 20 upper-division credits from adviser-approved courses selected from departments and programs in the

College of Liberal Arts and Sciences, the School of Business Administration, the Graduate School of Education, the College of the Arts, and the College of Urban and Public Affairs. International and Global Studies accepts the Community Health or Business minors towards the connected learning requirement.

Regional Focus (20 credits)

At least 20 upper-division credits from adviser-approved, area-specific courses appropriate to the student's regional focus. Students with a focus on European Studies are required to take Intl 452 European Union as one of the courses satisfying the regional focus requirements.

Language (0-27 credits)

Two years, or equivalent proficiency, of language study in one language appropriate to the regional focus. For students taking courses at PSU, second-year proficiency is defined by successful completion of the terminal course in the second-year language sequence, or demonstrating proficiency through the Department of World Languages and Literature.

Total Credits: 64

For graduation, a minimum of 36 credit hours are required to be in Intl courses. The approved elective courses which may be used to complete the above curriculum are determined according to the regional focus of study that a student selects.

Students must consult with the advisor for their region of focus when choosing courses.

REQUIREMENTS FOR THEMATIC FOCUS TRACKS

Two themes for concentration are available: Global Studies and International Development Studies. Majors must complete a core curriculum of international studies courses (24 credits); electives from either of two thematic focuses (20 credits); and elective courses from the other thematic focus (8 credits).

Core Courses (24 credits)

Intl 201	Introduction to International Studies	4
Intl 390	Foundations of Global Studies	4
Intl 396	The United States and the World	4
Intl 397	US Policy and International Development	4
Intl 407	Seminar	4
Intl 471/Ling 471	Understanding the International Experience	4

Thematic Electives (20 credits)

Majors must choose one of two thematic focuses; Global Studies or International Development Studies. Students must take 20 credits from their primary thematic area.

Additional Electives (8 credits)

Majors must take 8 credits of elective courses in the other thematic area.

COURSES APPROVED FOR THEMATIC FOCUS

Theme A: Global Studies - Social Justice, Human Rights & Global Media

Intl 317U	Topics in Asian Thought	4
Intl 321U	Globalization and Identity: Humanities	4
Intl 322U	Globalization and Identity: Social Science	4
Intl 323U	Tradition and Innovation: Humanities	4
Intl 324U	Tradition and Innovation: Social Science	4
Intl 331U/WS 331U	Women in the Middle East	4
Intl 332U	Islamic Movements in the Contemporary Muslim World	4
Intl 342U	Globalization and Conflict in Latin America	4
Intl 350U	The City in Europe	4
Intl 360U	Bollywood: Communicating Contemporary South Asia through Cinema	4
Intl 365U	Digital Globalization	4
Intl 380U	Globalization, Representation and Difference in Media and Film	4
Intl 391U	Media and International Relations	4

Theme B: International Development Studies - Development, Health & Environment

Intl 341U	Environment and Development in Latin America	4
Intl 343U	Commodity Chains in Latin America: From Silver to Cocaine	4
Intl 349U/WS 349U	Gender and International Development	4
Intl 362U/Hst 362U	Amazon Rain Forest	4
Intl 364U	Modern Brazil	4

Intl 372U/BS 372U	Post-colonial Studies of Africa	4
Intl 375U	Globalization and Forced Migration	4
Intl 445/USP 445	Cities and Third World Development	3
Intl 452/PS 452	The European Union	4
Intl 460/PS 460	Political Development in Modern Turkey	4
Intl 461/PS 461	Politics of Economic Reform in Modern Turkey	4
Intl 490	Global Sustainable Development	4

Language (0-27 credits)

Two years, or equivalent proficiency, of foreign language study. For students taking courses at PSU, second-year proficiency is defined by successful completion of the terminal course in the second-year language sequence, or demonstrating proficiency through the Department of World Languages and Literature.

Total Credit Hours: 52

All courses used to satisfy the departmental major requirements (and minor or certificate requirements), whether taken in the department or elsewhere, must be graded C or above.

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department major requirements.
Subtotal: 52

ACADEMIC ADVISERS

Information on courses and major requirements is available from advisers and at www.pdx.edu/intl/forms-lists. Majors should meet regularly with advisers beginning no later than the first term of their sophomore year; or first term after transfer.

Academic Advising: 503-725-9210

Global Studies: Kimberley Brown (Applied Linguistics), 503-725-8194; Evguenia Davidova, 503-725-8992; Priya Kapoor, 503-725-3543; Shawn Smallman, 503-725-9978

International Development Studies: Stephen Frenkel, 503-725-5085; Leopoldo Rodriguez, 503-725-8245; Birol Yesilada, 503-725-3257

Africa: Stephen Frenkel, 503-725-5085

Asia: Priya Kapoor, 503-725-3543

Europe: Evguenia Davidova, 503-725-8992

Latin America: Stephen Frenkel, 503-725-5085; Leopoldo Rodriguez, 503-725-8245; Shawn Smallman, 503-725-9978

Middle East: Kimberley Brown (Applied Linguistics),

503-725-8194; Birol Yesilada (Political Science), 503-725-3257

Contemporary Turkish Studies: Birol Yesilada, 503-725-3257

All courses used to satisfy the departmental major requirements (and minor or certificate requirements), whether taken in the department or elsewhere, must be graded C or above. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department major requirements. The approved elective courses which may be used to complete the above curriculum are determined according to the focus of study that a student selects. Information on recommended courses is available from advisers and at www.pdx.edu/intl/forms-lists. Majors should meet regularly with advisers beginning no later than the first term of their sophomore year; or first term after transfer.

INTERNATIONAL STUDIES MINOR

REQUIREMENTS

To earn a minor in international studies a student must: (1) demonstrate competence in an appropriate foreign language either by completing the second year of the language in the final term or by demonstrating proficiency at the same level; and (2) complete 28 credits to include the following:

International Studies

Intl 201	Introduction to International Studies	4
Intl 390	Foundations of Global Studies	4
Intl 396	The United States and the World Connected/Regional Learning	4
	(adviser-approved area-specific or thematic courses)	16

Subtotal: 28

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department minor requirements.

CERTIFICATES

Certificates in Regional Studies

Six different regional studies certificates may be earned simultaneously with a BA or BS degree, or post baccalaureate in any major. Certificates are available in African Studies, Asian Studies, European Studies, Latin American Studies, Middle East Studies, and Contemporary Turkish Studies. Each certificate focuses on the study of a group of countries or a geographical area having common linguistic and/or cultural characteristics. The course of study is designed to broaden a student's understanding of a

particular world region.

For the regional studies certificates students must take two years (or equivalent proficiency), of a foreign language appropriate to the region and 28 graded credits (C and above) of advisor-approved courses. The specific courses needed for each regional certificate differ; discuss the options with an International Studies adviser.

For further information about the regional studies certificates and advisor approved courses, contact the Department of International and Global Studies in East Hall 341.

Certificate in Global Studies

A certificate in global studies may be earned simultaneously with a BA or BS degree, or post baccalaureate in any major. The certificate offers students an opportunity to be recognized for their interest in and awareness of globalization and global studies in all of its aspects -- economic, cultural, political, environmental and social.

The Certificate in Global Studies consists of 20 graded credits (C and above) of global studies or globalization-focused work: including a 4 credit foundational course and 16 credits of elective coursework.

For the foundational course, students choose from among four options (Intl 201, PS 205, Geog 331 or Soc 320) and for the electives, students take 16 upper division credits focusing on Global Studies or Globalization. See this list of permanent approved courses.

Other courses (including variable topics, internships, transfer courses or study abroad courses) will be considered with adviser approval.

Students completing an International Studies major or minor are not eligible to receive a global studies certificate.

For further information about the Certificate in Global Studies, contact the Department of International and Global Studies in East Hall 341.

EDUCATION ABROAD

Students in both the International and Global Studies and certificate programs are encouraged to consider overseas study opportunities available through the Office of Education Abroad (p. 73), Karl Miller Center, Room 660. However, a study abroad experience is not required.

Mark O. Hatfield School of Government

Birol Yesilada, Director
650 Urban Center
503-725-3257
www.pdx.edu/hatfieldschool/

The Mark O. Hatfield School of Government is dedicated to improving governance through the integration of theory and practice. Scholarly inquiry is the foundation of the school's global programs that focus on public service, social justice, and governance.

Locally renowned, the Hatfield School has also gained national prestige as one of the top 50 Public Affairs graduate programs in the nation, according to the 2016 U.S. News and World Report rankings. Whether starting or advancing a career in public service, the Hatfield School has undergraduate, graduate, PhD, certificate and continuing education programs that allow students the flexibility to tailor their education to pursue their passion.

The Hatfield School is home to PSU's Criminology & Criminal Justice, Political Science and Public Administration departments. Although each program is distinct, their location under one roof affords students the unique opportunity for collaborative multi-disciplinary study.

The Hatfield School offers both a Ph.D. program and a Master's degree with an interdisciplinary focus:

- The Public Affairs and Policy Ph.D. program (p. 346)
- The Master's in Public Policy (p. 349)

The School consists of three academic departments:

- Department of Criminology and Criminal Justice (p. 351)
- Department of Political Science (p. 354)
- Department of Public Administration (p. 359)

and seven institutes and centers:

- Criminal Justice Policy Research Institute (p. 366)
- Center for Public Service (p. 366)
- The National Policy Consensus Center (p. 378)
- The Institute for Tribal Government
- The Nonprofit Institute (p. 379)
- Center for Turkish Studies (p. 366)
- Center for Women's Leadership (p. 366)

Doctoral Program

PUBLIC AFFAIRS AND POLICY PH.D.

The Ph.D. in Public Affairs and Policy is an interdisciplinary program designed to prepare individuals to pursue research, teaching, advocacy, public service, and/or consulting in a variety of settings ranging from universities to policy research organizations, public agencies, and private consulting firms. The degree may be pursued on a full- or part-time basis.

The degree program is administered by the Hatfield School of Government, but draws on faculty from the entire College of Urban and Public Affairs. Faculty members are drawn from public administration, political science, economics, policy sciences, and urban studies.

The curriculum focus is governance, the integrated study of political, administrative, and policy processes. This curriculum is taught against the backdrop of globalizing economies and political systems seeking to recognize governance in a modern world characterized by both cooperation and conflict among the public, private, and non-profit organizations.

The doctoral program in Public Affairs and Policy is designed to enable students to approach governance as an applied area of knowledge in which theory informs and is informed by real-world practice.

DEGREE REQUIREMENTS

Prerequisites

All students entering the doctoral program must have completed a basic course in statistics either upon entering or within the first year of study. No degree credit will be awarded for this coursework.

Credit requirements

The Ph.D. in public affairs and policy requires 80 credit hours of required and elective coursework. In addition, the student enrolls in 27 credits for dissertation research and writing.

The credits are distributed as follows:

Core Coursework	18
Field of Specialization (Tracks-1-3)	48
Research Methods	24
Dissertation credits	27

Subtotal: 107

To meet these credit requirements, relevant past academic coursework is recognized in these ways:

Up to 40 credits of coursework related to governance or research methods completed at the master's level may be counted toward the Ph.D. degree.

In addition, students with extensive academic background and/or experience in using quantitative or qualitative research methods may substitute one or more required research methods courses with other coursework with permission of their academic adviser.

Core courses and Credits

Core courses

PAP 611	Normative Foundations of Governance	3
PAP 613	Organization Theory and Behavior	3
PAP 614	Contemporary Governance	3
PAP 616	Policy Process	3
PAP 620	Seminar on American Political Institutions	3
PAP 621	Comparative Political Institutions	3

Subtotal: 18

Specialization fields (Tracks 1-3)

Students must choose one of the following three tracks as their primary domain of study.

1. Public Administration and Policy (38 credit hours)

Students focus on the functioning, management, and leadership of organizations in the public sector as well as the analysis of public policy. Required courses:

PA 534	Administrative Law	3
PS 559/USP 636	Political and Economic Decision-making	3
PAP 615	Administrative Process	3
	or	
PA 540	Administrative Theory and Behavior	3
PAP 653	Policy Analysis	3

2. Politics and Public Policy (38 credit hours)

Students focus on the political and economic determinants as well as the analysis of public policy at the local, national, and international levels. Required courses:

PAP 653	Policy Analysis	3
PAP 656	Advanced Political Economy	3
PAP 630	Proseminar in International Relations	4
PS 559/USP 636	Political and Economic Decision-making	3

3. Economics and Public Policy (38 credit hours)

Students focus on the understanding and application of economic theory to contemporary public policy and governance challenges, especially economic, fiscal, financial and commercial issues. Required courses:

Ec 571	Advanced Econometrics	4
Ec 575	Applied Advanced Econometrics	4
Ec 580	Mathematical Economics	4
Ec 581	Advanced Microeconomics	4
Ec 584	Applications of Advanced Microeconomic Theory	4
Ec 590	Advanced Macroeconomics	4
Ec 592	Applications of Advanced Macroeconomic Theory	4

Ec 571, Ec 575 and Ec 580 may be waived as Track courses if used as Research Methods elective. Students must still complete 38 total field credits.

Research Methods

Coursework in research methods is normally completed concurrently with field specialization coursework. Approved substitutes for methods coursework will be listed in the PAP Course Planner each year.

Methods courses and credits

PS 593	Philosophy of the Social Sciences	4
PAP 690	Research Design for Politics and Policy	4
PS 595	Research Methods for Political Science	4
	or	
Ec 570	Econometrics	4
	Electives	12
		Subtotal: 24

Dissertation Research

Students must register for a minimum of 27 credits of PAP 603 Dissertation to represent the work of researching and writing the doctoral dissertation.

Comprehensive examinations

In order to evaluate one's ability to integrate, analyze, and critique the diverse materials and ideas presented in the PAP curriculum, students are required to complete a two-part comprehensive examination. Part A of the examination (core exam) covers the 18 credit hours of foundational core courses. Part B (field exam) covers all coursework done in the student's specialization field (Tracks 1-3).

Dissertation requirements

The dissertation process is designed to evaluate the student's ability to successfully conduct a significant, independent applied research project. The dissertation thesis represents the culmination of a student's doctoral studies.

ADMISSION REQUIREMENTS

More information about the public affairs and policy Ph.D. program and all application forms are available at www.pdx.edu/hatfieldschool. Applications are accepted for fall admission only; the application deadline is 31 December and there is a late application deadline of 30 April.

PROGRAM RULES

A more comprehensive set of rules governing satisfactory completion of field area examinations, presentation of

dissertation, and timely completion of doctoral program requirements appear in the General Handbook for the Public Affairs and Policy Doctoral Program issued to incoming students and available online.

Limitation on graduate/undergraduate courses

Students in the PAP program are strongly advised to use no more than 12 credits of courses offered simultaneously at the 400- and 500-level in support of their degree programs. These courses must be an integral part of the student's program, and courses with the same content must not be available on a purely graduate basis.

Limitation on by-arrangement courses

Admitted Ph.D. students may utilize no more than 12 credits of Research and/or Reading and Conference credits (501/601 and 505/605). In cases where more than 12 credits are needed because of the lack of regularly scheduled classes, the student must submit a written request waiver to their adviser for approval.

Continuous enrollment and leave of absence

All students admitted to the Ph.D. program in public affairs and policy must be continuously enrolled until graduation, except for periods in which they are absent for an approved leave. Taking a minimum 3 credits per term during the regular academic year will constitute continuous enrollment. Failure to register without an approved leave may result in termination of a student's admission. Students may have no more than six terms of approved leave.

Grade requirement

A student who receives more than 9 credits of C+ or below in all coursework attempted after admission to the Ph.D. program will be dropped from the program.

Performance in core courses

A grade of C+ or below received for work performed in a core course is not considered passing. A PAP doctoral student who receives a grade of C+ or below in one of the core course offerings during fall or winter terms may not proceed to take the core course offerings in the subsequent term until the course in which a failing grade was received has been repeated, and the failing grade is replaced with a passing grade of B- or better.

RESEARCH AND TEACHING OPPORTUNITIES

The doctoral degree in public affairs and policy offers a number of research and teaching opportunities.

Hatfield Residency Program

This program, conducted in cooperation with the Hatfield School's Executive Leadership Institute, places qualified

doctoral students in public and not-for-profit agencies as paid residents. Agency placements provide students opportunities to conduct dissertation research, gain advanced research experience, and receive assistance in financing their educational objectives.

Graduate research assistantships

Dependent on available funds, a number of graduate research assistantships are available each year. Students must apply for these by February 1 of the academic year in which the assistantships are desired. Assistantships pay tuition and a small additional stipend.

Teaching opportunities

All doctoral students in the program are strongly encouraged to teach prior to completing their Ph.D. programs. There are a number of opportunities available in this regard.

Teaching apprenticeships with a university faculty member

These duties can include teaching one or more class sessions, assistance in preparing courses, and correction of examinations.

Teaching in the University Studies Program

Advanced doctoral students may also teach in sophomore inquiry coursework sponsored by the Hatfield School of Government. This coursework deals largely with citizen participation and leadership. Advanced doctoral students may also propose and teach a senior Capstone course at the undergraduate level. These are interdisciplinary community-based courses required of all PSU seniors. These students will develop and implement strategies to deal with a community issue in cooperation with one or more community organizations.

Masters Programs

MASTER OF PUBLIC POLICY

The Master of Public Policy is an interdisciplinary professional program designed to prepare individuals to be public policy professionals in the public, non-profit, and private sectors. The degree is built upon the disciplinary foundations of public policy, public administration, political science, economics, and public affairs. The degree is jointly administered by the Departments of Public Administration and Political Science.

The curriculum focus is acts of public policy, meaning the allocation of public values by authoritative institutions. The curriculum is designed to respond to the need for advanced training in public policy analysis and leadership/advocacy to succeed in today's complex policy environments. The degree may be pursued on a full-time (2 years) or part-time basis. Graduates of MPP programs

typically find employment in policy analysis and leadership/advocacy positions, especially in high-level public agencies, the private sector, and the non-profit sector.

DEGREE REQUIREMENTS

Courses and Credits

Cohort Course

Students take the following course as part of the incoming cohort each fall quarter:

PAP 511	Introduction to Public Policy	3
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Policy Process and Leadership Core Courses

Students take the following four courses:

PAP 512	Introduction to Policy Advocacy	3
PS 515	Comparative Public Policy	4
PAP 514	Institutional Dynamics of Public Policy	3
PA 579	Policy Tools in Policy Design	3

Policy Analysis Core Courses

Students take the following three courses and a 4-credit data analysis course of their own choosing:

PAP 653	Policy Analysis	3
PAP 654	Policy Analysis Research	3
PAP 513	Ethics and Public Policy	4

Track Courses

Students choose *one* of the following two tracks as part of their course specialization work:

1. Policy Leadership/Advocacy Track: Students take 12 credits of courses relating to policy leadership and advocacy, including policy process, communication, legal reasoning, network-building, policy arguments, problem solving, political feasibility, advocacy, and management.
2. Policy Analysis Track: Students take 12 credits of courses relating to policy analysis including research design and methods, cost-benefit analysis, forecasting, program evaluation, impact assessment, decision-making, systems modelling, and other subjects.

Specializations

Students identify a policy issue-area or sector and take 12 credits of courses relating to that sector in order to develop policy-domain specific knowledge as well as professional networking and experiential application opportunities.

Professional Development Plan

Students work with their faculty advisor to prepare a career-oriented plan that outlines a pathway to professional development for the student based on a set of career goals and links that plan to their MPP course of study. The plan is intended to provide an opportunity for students to build individual networks, establish job search plans, and

prepare a professional portfolio. The plan is the basis of an exit interview with MPP faculty and Professional Advisory Board members.

PAP 508 Professional Development Plan 1-3

Summative Policy Project

Students work with a single faculty member to complete a summative project, which can take one of several forms depending on the needs and interests of the student. In all cases, the project is intended as an integrative experience in which the student links their MPP work to their professional goals. The summative project could be, for instance: (1) a research-oriented report that tackles a question of policy analysis or public policy theory; or (2) a client report prepared upon completion of a short internship.

PAP 509 Public Policy Project 1-3

Prerequisites

All students entering the Master of Public Policy program must have completed a basic course in calculus and an introductory course in statistics. Students whose undergraduate degree is not in a related discipline may be asked also to complete an introductory course in public policy, public administration, or political science.

Credit requirements

The Master of Public Policy program requires 60 credit hours of required, elective, and professional development coursework.

The credits are distributed as follows:

First-Year Cohort Course	3
Policy Analysis Core Courses	14
Policy Leadership Core Courses	13
Policy Analysis or Leadership	12
Track Electives	
Policy Specialization Courses	12
Summative Policy Project	3
Professional Development Plan	3

Subtotal: 60

PROGRAM RULES

A more comprehensive set of rules governing satisfactory performance in the MPP can be found in the Handbook for the Master of Public Policy Program issued to incoming students and available online.

Limitation on graduate/undergraduate courses

Students in the MPP program are strongly advised to use no more than 12 credits of courses offered simultaneously at the 400- and 500-level in support of their degree programs. These courses must be an integral part of the student's program, and courses with the same content must not be available on a purely graduate basis.

Limitation on by-arrangement courses

Admitted Ph.D. students may utilize no more than 12 credits of Research and/or Reading and Conference credits (501/601 and 505/605). In cases where more than 12 credits are needed because of the lack of regularly scheduled classes, the student must submit a written request waiver to their adviser for approval.

Continuous enrollment and leave of absence

All students admitted to the MPP program must be continuously enrolled until graduation, except for periods in which they are absent for an approved leave. Taking a minimum 3 credits per term during the regular academic year will constitute continuous enrollment. Failure to register without an approved leave may result in termination of a student's admission. Students may have no more than six terms of approved leave.

PROFESSIONAL DEVELOPMENT OPPORTUNITIES

The MPP program offers a number of professional development opportunities outside of the curricular requirements of the program.

Professional Advisory Board

The MPP Professional Advisory Board is composed of policy professionals from the government, non-profit, and private sectors. They serve as invited members with a role of serving as an ongoing line of communication between the program and those in service. The PAB helps MPP students to shape their professional goals, to identify networking opportunities, to find summative project clients and experiences, and to maintain constant contact with the shifting demands of public policy education. Students will have both formal and informal opportunities to work with PAB members.

Policy Competitions

Participation in national and international policy competitions is a common aspect of professional education in public policy. Each year, MPP students, under the direction of an MPP faculty member, will be able to participate in policy competitions.

Oregon Public Policy Research Network

Through the Center for Public Service, the Hatfield School of Government is a founding member of the Oregon Public Policy Research Network. The Center and the Network engage in contract-based public policy research. Advanced MPP students will have the opportunity to work with the CPS to expand its public policy research.

ADMISSION REQUIREMENTS

More information about the Master of Public Policy admissions process is available at www.pdx.edu/hatfieldschool. Faculty begin reviewing

applications on January 31 and continue through early July, although applicants are encouraged to apply early in the application cycle.

Criminology and Criminal Justice

550 Urban Center

503-725-4014

<https://www.pdx.edu/criminology-criminal-justice/>

- B.A., B.S. (Fully Online Available)
- Minor (Fully Online Available)
- Postbaccalaureate Certificate (Fully Online Available)
- M.S.

The Department of Criminology & Criminal Justice emphasizes the generation and practical application of empirical evidence to crime and justice issues. We seek to promote effectiveness, efficiency, and equity in crime prevention and control efforts by (1) providing students with quality educational experiences that prepare them for lifelong professional success, (2) conducting and disseminating research on theoretical and policy-relevant topics, and (3) collaborating with justice-related organizations to assess, evaluate, and improve policy and practice. Our Department values empirical inquiry, access to higher education, diversity, social justice, and community engagement.

Undergraduate Program

The Department of Criminology & Criminal Justice offers both a campus-based and fully online pathway toward its bachelor degree. The undergraduate program seeks to educate students about the causes, consequences, prevention, and control of criminal and law-violating activity at multiple levels of analysis. Our undergraduate curriculum focuses on (1) criminology and criminal justice theories and empirical research addressing the role of individuals, families, communities, and society in the production and prevention of crime, (2) the justice system's function in controlling crime, and (3) a critical analysis of the effectiveness, efficiency, and equity of related policies and practices. Educational experiences facilitated inside and outside of class help promote students' long term professional success by developing their capacity for critical reasoning, problem-solving, and effective communication.

Criminology & Criminal Justice is an interdisciplinary major, a fact demonstrated by the diverse backgrounds of our full-time and part-time faculty. Students graduating from our program have a wide range of choices when they look for employment or post-graduate education. Recent graduates have found jobs in law enforcement (e.g., police

officer, immigration, crime analyst), courts (e.g., victim advocate, administration), corrections (e.g., parole officer, facility management), human services (e.g., offender counseling, child welfare), and crime prevention (e.g., neighborhood crime prevention specialist, private security). Other alumni from our program have gone on to pursue advanced degrees in such areas as law, criminal justice, psychology, social work, public administration, and urban planning.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree map and expected learning outcomes for Criminology & Criminal Justice's undergraduate degree, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See page Admissions Requirements (p. 8) for more information.

There is an auxiliary application for the fully online program. For more details, please visit <https://www.pdx.edu/criminology-criminal-justice/online-criminology-and-criminal-justice-programs>.

CRIMINOLOGY AND CRIMINAL JUSTICE, B.A./B.S.

REQUIREMENTS

In addition to meeting the general university degree requirements, students who major in Criminology & Criminal Justice (CCJ) must complete core and elective courses within the department. Some of these courses require senior status, and students should read course descriptions in the current PSU Bulletin before registration. All core and elective courses submitted to satisfy the requirements for the major, whether taken at PSU or elsewhere, must be passed with a grade of "C" (2.00 GPA) or above. A course grade of C- does not satisfy this requirement. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department major requirements. The CCJ degree requirements are:

Core Courses

Transfer equivalent courses may hold a different credit value than the ones listed here.

CCJ 200	Criminology and Criminal Justice	4
CCJ 230	Policing in America	4
CCJ 240	Punishment and Corrections	4
CCJ 310	American Courts	4

CCJ 320U	Theories of Crime & Justice	4
CCJ 330U	Crime Control Strategies	4
CCJ 340	Crime Analysis	4
CCJ 380	Criminal Justice Research	4
CCJ 404	Cooperative Education/Internship	8
CCJ 420	Criminal Law and Legal Reasoning	4

Subtotal: 41-44**CCJ Electives**

Students take 8 credits of courses from the 100-400 level range. An additional 16 credits must be taken at the 300-400 level range, totaling 24 credits.

Subtotal: 24

Subtotal: 65-68

CRIMINOLOGY AND CRIMINAL JUSTICE MINOR

REQUIREMENTS

Students who minor in CCJ must complete core and elective courses within the department. All courses submitted to satisfy the requirements for the minor, whether taken at PSU or elsewhere, must be passed with a grade of C (2.00 GPA) or above. A course grade of C- *does not* satisfy this requirement. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted. The CCJ degree requirements for the minor are:

Courses

CCJ 200	Criminology and Criminal Justice	4
CCJ 320U	Theories of Crime & Justice	4
CCJ 330U	Crime Control Strategies	4
	CCJ elective credits (minimum of 8 credits at or above 300-level)	16

One course from list below

CCJ 230	Policing in America	4
CCJ 240	Punishment and Corrections	4
CCJ 310	American Courts	4

Subtotal: 32

CRIMINOLOGY AND CRIMINAL JUSTICE POST-BACCALAUREATE CERTIFICATE

To earn a post-baccalaureate certificate in criminology and criminal justice students must complete core and elective courses within the department. Some of these courses may have prerequisites and students should read course descriptions in the current PSU Bulletin before registration. All core and elective courses submitted to satisfy the requirements for a post-baccalaureate certificate, whether taken at PSU or elsewhere, must be passed with a grade of "C" (2.00 GPA) or above. A course

grade of C- does not satisfy this requirement. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling these requirements. The CCJ degree requirements for a post-baccalaureate certificate are:

REQUIREMENTS

Courses

CCJ 200	Criminology and Criminal Justice	4
CCJ 320U	Theories of Crime & Justice	4
CCJ 330U	Crime Control Strategies	4
CCJ 380	Criminal Justice Research	4
CCJ 420	Criminal Law and Legal Reasoning	4
	CCJ elective credits (minimum of 8 credits at or above 300-level)	12

Two courses from list below

CCJ 230	Policing in America	4
CCJ 240	Punishment and Corrections	4
CCJ 310	American Courts	4

Subtotal: 40

Total Credit Hours: 40*Graduate Program*

ADMISSION REQUIREMENTS

In addition to the general University requirements for admission to graduate study, prospective students should arrange for the Department of Criminology and Criminal Justice to receive:

1. CCJ Graduate Program application submitted online. Please visit site: <https://www.pdx.edu/graduate-admissions/> to apply.
2. Transcripts from each post-secondary institution attended, including PSU.
3. Two (or more) letters of recommendation from faculty members at colleges or universities previously attended, or from others in a position to comment on the student's academic and professional background and experience.
4. A 500-word statement of purpose describing academic and professional career goals, including subfields of primary interest. The statement may also be used to provide any other additional information pertinent to the applicant's qualifications.
5. Applicants required to submit TOEFL scores to the Office of Admissions should also submit them to the Department.
6. A resume or curriculum vita is optional.

7. Students interested in a Graduate Assistantship should indicate this on their application.

In order to be considered for regular admission to the program, applicants should have a total undergraduate GPA of 3.20 or higher or a graduate GPA of 3.20 or higher for a minimum of 9 credit hours.

CRIMINOLOGY AND CRIMINAL JUSTICE M.S.

The Department of Criminology and Criminal Justice offers a program of study designed to provide students a broad-based understanding of the criminal justice system and society's response to crime. A major goal of the program is to develop understanding of the applied and theoretical aspects of crime and criminal justice.

The program provides students with a high degree of flexibility and allows students to tailor the program to match their own career interests. Core coursework consists of classes in the theoretical foundations of criminology and criminal justice, methodology, and criminal justice policy analysis.

Students are required to develop a specialization in a substantive area outside of the Department of Criminology and Criminal Justice. In consultation with an adviser, students identify and complete a minimum of three classes, thereby creating a specialty that is unique for each student. Potential specialization fields include social work, social justice, public management, public policy, political science, urban studies, geographic information systems, and crime analysis.

The Criminology & Criminal Justice Graduate program seeks to create a meaningful learning experience and foster professional development for its students based on the following principles:

1. **Community of Learners:** Graduate students and faculty are involved in a community based on collegial and collaborative relationships evidenced by co-learning and critical dialogue in the classroom and student-faculty partnerships outside of the classroom on writing, research, and community engagement projects.
2. **Initiative and Original Thinking:** Graduate students are encouraged and given opportunities to participate in the management of their own education experiences and develop new understandings of knowledge and professional practice.
3. **Synthesis and Evaluation:** Students practice the integration of theory and empirical literature on given criminology and criminal justice topics in order to develop sound theoretical and practical evaluations and to present findings through oral and written reports.

4. **Methodological and Analytical Experiences:** Graduate students are afforded opportunities to practice the development and implementation of research methodologies and execution of basic statistical analyses of empirical data.

5. **Self-Assessment:** Graduate students are expected to articulate their career goals and develop evidence of their professional growth related to theory, research, policy, communication, justice, diversity, and community engagement.

DEGREE REQUIREMENTS

All candidates for a master's degree must complete 50-54 graduate credits distributed as follows:

1. 24 credit hours must be taken in the substantive core.
2. A minimum of three classes totaling 9-12 credit hours in a specialization field.
3. 12 credits of elective courses.
4. 6 credit hours of thesis or project work.
5. Successful submission and defense of a portfolio, field project or thesis.

Substantive Core

Courses

CCJ 515	Theories of Crime and Justice	4
CCJ 520	Analysis of Crime and Justice Data	4
CCJ 525	Criminal Justice Theory	4
CCJ 530	Criminal Justice Research	4
CCJ 535	Criminal Justice Policy	4
CCJ 545	Advanced Topics in Research Methods	4

Specialization Field

In consultation with an adviser, students will be required to develop and complete a specialization field as a part of their degree requirements. A minimum of three classes, totaling 9-12 credits must be completed in the specialization field. Students are encouraged to complete this requirement by taking courses in other academic units such as social work, public administration, computer science, political science, sociology, or geography. Courses may be selected from several academic units so long as they comprise a coherent field of study that will contribute to the academic development of the student.

Elective Courses

Students must satisfactorily complete 12 credit hours of elective courses, all of which must be taken in the Department of Criminology and Criminal Justice.

Portfolio, Field Project, or Thesis

Candidates must complete one of three options as part of their culminating experience. The options include a portfolio, field project, or traditional thesis, all of which require a final oral examination. Successful completion of one of these three options is a graduation requirement.

- **Thesis:** A thesis is a scholarly work that demonstrates substantial capacity on the part of the student to engage in independent investigation. Students must submit a letter of interest and thesis prospective to the CCJ Graduate Committee for approval before proceeding with the thesis option. To satisfy thesis requirements, students must pose an empirical research question and apply appropriate methods of scholarship to that question in order to generate new knowledge.
- **Field Project:** A field project involves the student contributing their accumulated program knowledge and technical skills to a report, presentation, or other product that directly benefits an external agency. The field project must have a strong applied focus and address a specific professional or organizational need. Students must submit a letter of interest and field project prospectus to the CCJ Graduate Committee for approval before proceeding with the field project option.
- **Portfolio:** All CCJ Masters students will complete a portfolio unless they opt for a thesis or field project. The purposes of the portfolio are to facilitate students' learning and intellectual development, document accomplishments, and assess students' specialized skills and professional knowledge. Portfolio students will create an electronic portfolio (e-portfolio) to document, evaluate, integrate, and reflect upon their learning experiences.

Political Science

650 Urban Center
503-725-3920
www.pdx.edu/hatfieldschool/political-science

- B.A., B.S.
- Minor
- Minor in Law and Legal Studies
- Secondary Education Program—Social Science
- M.A., M.S.
- Ph.D.—Participating department in Public Affairs and Policy Doctoral Program

Undergraduate programs

The program in political science leading to the B.A. or B.S. degree is designed to meet the needs of the liberal arts major who wishes to learn more about public and international affairs, government, and the demands of citizenship. It is appropriate for professionally motivated students who wish to pursue careers in political science, public administration, international organizations, domestic government, communications, education, or law. It is also appropriate for inquiring students desiring to learn more about the way human beings live together and the structures and institutions they have developed (or might develop) to facilitate social cooperation and conflict management.

The most current information about undergraduate degree programs, internships, and other opportunities is available on the program website (www.pdx.edu/hatfieldschool/undergraduate-program-political-science).

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Political Science's undergraduate degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 8) for more information.

DEGREE REQUIREMENTS

Once a student has been admitted to Portland State University, upper-division courses used to meet political science major requirements must be taken at the University. Courses taken at another college or university must have received prior approval from the Department of Political Science. All courses used to satisfy political science major requirements, whether taken at PSU or elsewhere, must be graded C or above. Students must complete a minimum of 20 credits of political science coursework at PSU.

There are four different options for students completing a degree in political science: the standard major, the public service option, the international development option, and the honors program.

POLITICAL SCIENCE B.A./B.S.

The standard major offers a traditional course of study in political science that involves some exposure to three basic

areas of the discipline. In addition to meeting the University's general education requirements, a student wishing to pursue a basic major in political science must take a minimum of 48 credits in political science distributed as follows. The distinguishing feature of the B.S. degree is that it requires either PS 295 or PS 495 as one of the Upper Division Requirements, while the B.A. does not require either of these courses.

A minimum of 20 credits must be taken in residence at PSU.

REQUIREMENTS

Lower Division Requirements

Three courses from the following four options (12 credits)

PS 101	United States Government	4
	or	
PS 102	United States Politics	4
PS 204	Comparative Politics	4
PS 205	International Politics	4
PS 208	Introduction to Political Theory	4

Upper Division Requirements (36 credits)*

Five 400-level PS courses	20
Additional PS electives	16
(minimum 12 upper division)	

Subtotal: 48

*One of which must be PS 295 or PS 495 to earn the B.S. degree.

PUBLIC SERVICE OPTION

The Public Service option in Political Science is designed for students who want a more hands-on experience in the major or are interested in practical politics. The curriculum provides students with a strong foundation in American government, while instilling in them an understanding of public service. Students in this track are required to serve an internship in a governmental or political office.

Lower Division Requirements

Three courses from the following four options (12 credits)

PS 101	United States Government	4
	or	
PS 102	United States Politics	4
PS 204	Comparative Politics	4
PS 205	International Politics	4
PS 208	Introduction to Political Theory	4

Upper Division Requirements

PS 431	State and Local Politics	4
PA 313U	Fundamentals of Public Service	4

Additional electives (20 credits, minimum of 8 in Political Science)

Political Science options:

PS 312	Legislative Process	4
PS 318U	Media, Opinion, and Voting	4
PS 331	Oregon Politics	4
PS 413	Congress	4
PS 416	Political Parties and Elections	4
PS 417	Interest Groups	4
PS 418	Contemporary Political Protest in America	4
PS 419	Political Reform	4
PS 421	The Supreme Court and American Politics	4
PS 424	Law, Politics, and Society	4
PS 426	The Politics of the News	4

Public Administration options:

PA 311U	Introduction to Civic Engagement	4
PA 320U	Introduction to Nonprofit Management	4
PA 412	Civic Engagement: The Role of Governing Institutions	4
PA 413	Civic Engagement: The Role of Individuals	4
PA 414	Civic Engagement: The Role of Social Institutions	4
PA 417	Ethical Leadership	4
PA 425	Grantwriting for Nonprofit Organizations	4

Field Experience (8 credits)

PS 404	Cooperative Education/Internship	8
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Subtotal: 48

Courses not required for the Public Service Option, but recommended for those interested in public service careers:

Comm 312U	Media Literacy	4
Comm 313U	Communication in Groups	4
Ec 201	Principles of Microeconomics	4
Ec 202	Principles of Macroeconomics	4
Ec 311	Microeconomic Theory	4
Ec 312	Macroeconomic Theory	4
USP 316	Community Organizing and Social Change	4
USP 317U	Introduction to International Community Development	4
USP 386U	Portland Past and Present	4
USP 419/Soc 441	Population and Society	4

USP 428	Concepts of Community Development	4
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INTERNATIONAL DEVELOPMENT OPTION

International development involves questions of global governance, international and development economics, foreign aid and humanitarian assistance, poverty reduction and human development, sustainable development, and international and intergenerational justice.

Lower Division Requirements

Three courses from the following four options (12 credits)

PS 101	United States Government or	4
PS 102	United States Politics	4
PS 204	Comparative Politics	4
PS 205	International Politics	4
PS 208	Introduction to Political Theory	4

Upper Division Requirements

Three courses from the following four options (12 credits)

PS 447	International Organization	4
PS 448	International Law	4
PS 449	International Environmental Politics and Law	4
PS 454	International Political Economy	4

Political Science electives

Five courses from the following options (20 credits)

PS 319	Politics of the Environment	4
PS 352U	Introduction to European Politics	4
PS 353U	Introduction to Latin American Politics	4
PS 354	Introduction to Asian Politics	4
PS 355U	Introduction to African Politics	4
PS 361U	Introduction to the Politics of the Middle East	4
PS 362U	Arab-Israeli Conflict	4
PS 455	Politics of Economic Reform in Emerging Market Countries	4
PS 460/Intl 460	Political Development in Modern Turkey	4
PS 461/Intl 461	Politics of Economic Reform in Modern Turkey	4
PS 466	Politics of China	4
PS 471	Gender & Politics: A Comparative Perspective	4
PS 474	Democracy and Development in Latin America	4
PS 479	Transitions to Democracy	4
PS 483	Justice in the Modern World	4

Non-Political Science electives

Three courses from the following options (12 credits)

Ec 340	International Economics	4
Ec 442	The Multinational Enterprise in the World Economy	4
Ec 445	Comparative Economic Systems	4
Ec 447	Economics of Transition	4
Ec 450	Economics of Development	4
Geog 331U	Geography of Globalization	4
Geog 340U	Global Water Issues and Sustainability	4
Geog 346U	World Population and Food Supply	4
Intl 397	US Policy and International Development	4
Intl 490	Global Sustainable Development	4
Phl 350U	International Ethics	4
Soc 320U	Globalization	4
Soc 420	Urbanization and Community	4
Soc 450	Sociology of Higher Education	4
Soc 441/USP 419	Population and Society	4
Soc 463	Global Inequalities and Health	4
Soc 465	Environmental Sociology	4

Research Project (4 credits)

PS 404	Cooperative Education/Internship	1-12
PS 405	Reading and Conference	1-6

Subtotal: 60

(Choose one of the following)

POLITICAL SCIENCE HONORS PROGRAM

The honors program is designed for our top students who seek out additional intellectual challenges, including research and writing an honors thesis during their senior year. It is distinct from the University Honors Program, but political science majors may be admitted to both programs.

Students apply for admission to the program during the winter or spring quarter of their junior year. To be eligible for the honors program, a student must be a political science major and have earned at least a 3.2 grade point average overall and a 3.5 GPA in their political science coursework. Applicants submit the following information to the Honors Program advisor: PSU and other college transcripts, letters of recommendation from two political science faculty, and a statement of purpose (500 words or less) indicating interest in the program, area of research for the honors thesis, and the faculty member willing to supervise the research.

REQUIREMENTS

Political science honors students complete all of the coursework required for the standard major, but honors coursework must include the following:

Required Courses

PS 493	Philosophy of the Social Sciences	4
PS 495	Research Methods for Political Science	4
PS 403	Honors Thesis	12

Thesis credits are awarded in conjunction with thesis research and writing during the senior year, and students submit and defend their honors theses at the end of their senior year. For political science students who are also enrolled in the University Honors Program, the process is designed to satisfy the thesis requirements of both programs.

POLITICAL SCIENCE MINOR

The minor in political science requires fewer credits than the standard major and may be combined with other majors offered at PSU. Of the 28 required course credits, students must complete at least 16 at PSU.

REQUIREMENTS

Lower Division Requirements

Two courses from the following four options (8 credits)

PS 101	United States Government	4
	or	
PS 102	United States Politics	4
PS 204	Comparative Politics	4
PS 205	International Politics	4
PS 208	Introduction to Political Theory	4

Upper Division Requirements

Five courses (20 credits, minimum 12 at 400-level)

Subtotal: 28

All courses submitted to satisfy the requirement for a minor in political science must be passed with a grade of C or above. Students are encouraged to take political science courses that complement their academic interests and scholarly goals. The political science minor is designed to be as flexible as possible to facilitate this end. Students considering a minor in political science are strongly encouraged to consult with a political science adviser to work out an instructional program that meets their needs.

LAW AND LEGAL STUDIES MINOR

The minor in law and legal studies offers an interdisciplinary, liberal arts approach to the study of law. This is an academic program, not a professional training program, emphasizing the political, social, cultural, and philosophical foundations and impacts of law and legal systems. It is designed for pre-law students and also for a broad array of students from across the PSU campus who are interested in the relationship of law to politics, society, and culture. While the core courses concentrate on American law and the American legal system, the electives allow students to focus on aspects of law related to areas such as international law, comparative law, and philosophy.

REQUIREMENTS

Lower Division Requirements

PS 101	United States Government	4
PS 221	Introduction to Law and Legal Studies	4

Upper Division Requirements

PS 421	The Supreme Court and American Politics	4
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Electives (16 credits)

Political Science options (minimum 8 credits)

PS 422	Constitutional Law	4
PS 423	Civil Liberties	4
PS 424	Law, Politics, and Society	4
PS 425/WS 424	Women and the Law	4
PS 428	The Politics of Law and Order	4
PS 448	International Law	4
PS 449	International Environmental Politics and Law	4
PS 483	Justice in the Modern World	4

Non-Political Science options (maximum 8 credits)

CCJ 310	American Courts	4
CCJ 420	Criminal Law and Legal Reasoning	4
Phl 311U	The Morality of Punishment	4
Phl 333U	Philosophy of Law	4
Hst 446	Civil Rights and the Law: The History of Equal Protection	4
Hst 447	U.S. Constitutional History: Foundations	4
Hst 448	U.S. Constitution: Nineteenth Century	4
Hst 449	U.S. Constitution: Twentieth Century	4
	Electives approved by Law and Legal Studies advisor (maximum 8 credits)	

Subtotal: 28

Subtotal: 28

For law and legal studies minors who are also majoring or minoring in political science, at least three electives (12 credits) must be applied solely to the law and legal studies minor. In order to count toward fulfillment of the minor, courses must be passed with a grade of C or above.

Graduate Program

The Department of Political Science offers programs leading to both a master of arts (M.A.) and a master of science (M.S.) degree. The master's program has a strong academic orientation. Through an immersion in political science scholarship, student are prepared for careers in the public or private sector that call for analytical acumen and clarity in written and oral communication. The Department also participates in the Public Affairs and Policy Ph.D. Program.

ADMISSION REQUIREMENTS

The master's program generally attracts students with undergraduate degrees in political science, but is open to students with a wide variety of disciplinary backgrounds. The program admits graduate students during the fall term. Procedures and deadlines for applications are provided on the program website (www.pdx.edu/hatfieldschool/graduate-program-in-political-science).

The following materials should be submitted through the application link found on the Office of Graduate Studies website.

- Non-refundable \$65 application fee (no cash)
- One transcript from each post-secondary institution attended (both sides need to be uploaded)
- A 500 word statement of intent. The statement should address the following: 1) Professional goals; 2) Planned area of study; 3) Desired employment sector; 4) How the degree furthers achievement of your professional goals
- Two recommendation letters from individuals familiar with the applicant's academic and/or professional capabilities. Preferably, the letters should be from former instructors or from individuals with knowledge of your professional performance and potential.
- The scores of the Graduate Record Examination (GRE). Please note that you should make arrangements to take the GRE well in advance of the application deadline.
- Measles Vaccine Form
- Official TOEFL scores if the applicant does not speak English as a native language and has not received a

graduate or undergraduate degree in an English-speaking territory.

- Statement of Financial Support and Declaration of Finances (if International)
- International Applicants who currently reside in the United States with an F-1 or J-1 visa must fill out the SEVIS form

POLITICAL SCIENCE M.A./M.S.

REQUIREMENTS

Master's degree students concentrate their coursework in two of four fields of concentration in political science: American politics, international relations, comparative politics, political theory. Coursework also prepares students for their two comprehensive field examinations. Coursework is distributed as follows:

Required Courses (5 courses)

Students choose 3 of the 4

PS 520	Seminar on American Political Institutions	4
PS 530	Proseminar in International Relations	4
PS 507	Seminar on Comparative Political Institutions	4
PS 507	Normative Foundations of Governance	4
	or	
PAP 611	Normative Foundations of Governance	3

All students complete:

PS 593	Philosophy of the Social Sciences	4
PS 594/PAP 690	Research Design for Politics and Policy	4
PS 503	Thesis	6

Three courses in two fields of concentration (24 credits), including the following courses:

	Minimum of two 500-level seminars	
	Maximum of one approved non-political science course	
PS 595	Research Methods for Political Science	4

Subtotal: 50

PS 595 is only required for the M.S. Degree

Limit of 2 online classes can be counted toward the fulfillment of degree requirements.

Students are required to meet with or email their advisors to approve their classes before each term.

In order to count toward fulfillment of master's degree requirements, courses must be passed with a grade of B- or above. M.A. students must demonstrate proficiency in a foreign language. Those who have not had at least two years of college-level instruction in a foreign language must pass an examination in one foreign language, administered by the Department of World Languages and Literatures.

Field Examinations

Field exams are taken in both fields of concentration. Each tests the student's comprehension of that field, as encompassed by the student's coursework. The student's field advisors provide information about the format of the exam, the material it will cover, and the expectations for satisfactory performance. Students are encouraged to take their field exams toward the end of the term in which they will complete their coursework for the degree, or very soon thereafter (usually fall or winter term of the second year).

Thesis

The final requirement for the degree is the master's thesis—an original investigation that demonstrates mastery of a topic in political science and the ability to communicate this understanding to an audience of one's peers. The thesis topic is chosen in consultation with the student's thesis advisors. The thesis is defended in an oral presentation that lays out the purpose, implementation, and findings of the project, and makes a case for its contribution to political science scholarship.

Public Administration

650 Urban Center
503-725-3921
www.pdx.edu/hatfieldschool/public-administration

- Minor in Civic Leadership
- M.P.A.
- M.P.A.: Health Administration
- M.N.L.
- E.M.P.A.
- Graduate Certificates: (p. 365)
 - Nonprofit & Public Management
 - Sustainable Food Systems (*Participating Department with Urban Studies and Planning*)
- Collaborative Governance
- Energy Policy & Management (*Participating Department with Urban Studies and Planning*) (p. 365)
- M.P.P.: Master of Public Policy (*Participating Department with Hatfield School of Government*)
- P.A.P. Ph.D. (*Participating Department with Hatfield School of Government*) (p. 312)

The Department of Public Administration offers a variety of programs to meet the educational needs of public service professionals. Mid-career managers and those intending such careers in federal, state, and local government; nonprofit agencies; and hospitals and other health care organizations are attracted to the programs offered by the department because of the quality of the faculty, the reputation of the programs, and the convenience of course scheduling. In addition to its own faculty and course offerings, the Department of Public Administration draws upon faculty and courses from other departments and schools, such as political science, economics, criminology and criminal justice, urban studies and planning, gerontology, and public health. Adjunct faculty with appropriate academic credentials and significant professional experience in government, nonprofit, and health organizations also contribute to the department.

The graduate programs offered under the Department of Public Administration admit students with undergraduate degrees in a variety of social sciences, as well as in business, the humanities, and sciences. It accepts both full- and part-time students, who have had substantial governmental and nonprofit experience, and who have little or no professional experience. To accommodate graduate students who are currently working, the department offers sections of all required courses in the evenings or late afternoons or in intensive weekend formats.

Accreditation

The Master of Public Administration, the Master of Public Administration: Health Administration and the Executive Master of Public Administration degrees are accredited by NASPAA (the Network of Schools of Public Policy, Affairs and Administration). The Master of Public Administration: Health Administration is also accredited by the Commission on Accreditation of Health Management Education (CAHME).

Doctoral students

See the graduate program within the Hatfield School of Government for details under the Doctor of Philosophy in Public Affairs and Policy (p. 366).

*Undergraduate Programs***DEGREE MAPS AND LEARNING OUTCOMES**

To view the degree map and expected learning outcomes for Public Administration's undergraduate minor, go to www.pdx.edu/academic-programs/undergraduate-programs.

CIVIC LEADERSHIP MINOR

The interdisciplinary Civic Leadership minor provides students with theoretical and practical understanding about civic leadership, and prepares students to be responsibly engaged citizens and community leaders. Students who minor in civic leadership must complete core and elective courses for a total of 34 credits (at least 20 of which must be taken in residence at PSU). Some of these courses have prerequisites, and students should read course descriptions in the current PSU Bulletin before registration. A pre-approved 6-credit community-based civic leadership practicum is required as part of the minor. The practicum requirement may be fulfilled by any UNST Senior Capstone course or by an independently developed and approved community-based learning experience.

REQUIREMENTS**Required (12 credits total):**

PA 311U	Introduction to Civic Engagement	4
PA 312U	Foundations of Community Leadership	4
PA 415	Civic Leadership Integrative Seminar	4

Civic Leadership electives (8 credits needed, choose two from below):

PA 313U	Fundamentals of Public Service	4
PA 412	Civic Engagement: The Role of Governing Institutions	4
PA 413	Civic Engagement: The Role of Individuals	4
PA 414	Civic Engagement: The Role of Social Institutions	4
PA 417	Ethical Leadership	4

Other electives (8 credits needed, choose two from below):

CCJ 350U	Ethical Leadership in Criminal Justice	4
Comm 313U	Communication in Groups	4
ELP 318U	Introduction to Educational Leadership in Public Schools	4
ELP 350U	Introduction to Leadership for Sustainability	4

PA 314U	Students as Leaders	4
PA 315U	Managing People for Change	4
PA 316	Leadership in New Student Programs	3
PA 320U	Introduction to Nonprofit Management	4
PA 425	Grantwriting for Nonprofit Organizations	4
PS 312	Legislative Process	4
PS 318U	Media, Opinion, and Voting	4
PS 325U	Politics and the Legal Enforcement of Morals	4
PS 417	Interest Groups	4
PS 431	State and Local Politics	4
USP 350U	Inclusive Engagement	4

Community-based practicum (6 credits total)*Graduate Programs***ADMISSION REQUIREMENTS**

In determining admission to the Department of Public Administration, the faculty assesses the applicant's preparation for and commitment to the unique demands of a public service career. It considers the following combination of evidence, all of which must be submitted to PSU's on-line application system:

1. The appropriateness and quality of academic preparation demonstrated by the breadth and content of prior academic coursework. A minimum GPA of 3.00 in undergraduate coursework is generally expected of students seeking regular admission status. Exceptions are occasionally made to this requirement when supported by other compelling evidence.
2. Three independent assessments of the applicant's ability to perform adequately in graduate studies and potential for high-level performance in public service. The three letters of assessment, on forms provided by the Department of Public Administration, and supplemented by personal letters, should be provided by faculty members from colleges or universities previously attended or by other persons in a position to comment on the applicant's academic background and professional experience. One letter should be from the applicant's current employer, if any.
3. A résumé of professional work experience, if any.
4. A TOEFL score of 550 on paper, 213 on computer or 80 on internet is required of every applicant whose first language is not English. This is a requirement even if the applicant has earned an undergraduate degree in the United States.

5. All degrees offered by the Department of Public Administration require the submission of a Statement of Purpose from the applicant. Specific format and content for the Statement of Purpose differ from degree to degree.

- a. The MPA, MPA:HA, and MNL requirements may be found at www.pdx.edu/hatfieldschool/admission-criteria-requirements.
- b. The EMPA admission requirements may be found at www.pdx.edu/cps/empa.
- c. The admission requirements for Certificates in Nonprofit and Public Management, Collaborative Governance, Food Systems and Energy Policy & Management may be found at: <https://www.pdx.edu/cupa/cupa-certificate-programs>.

Student may apply for admission any time throughout the calendar year. The Department of Public Administration maintains the same application deadlines published for the University for official admission in fall, winter, and spring terms.

Limitation on by-arrangement courses

Admitted master's students may utilize up to 12 credits of by-arrangement classes (501 and 505). In cases where more than 12 credits are needed because of the lack of regularly scheduled classes, a waiver must be submitted for approval to the department curriculum committee and the department chair.

Limitation on acceptance of C grades

No student may use more than two C grades toward graduation for a graduate degree from the Department of Public Administration.

DEGREE REQUIREMENTS

The Department of Public Administration offers four Masters Degrees: Master of Public Administration (MPA), Master of Public Administration in Health Administration (MPA-HA), Master of Nonprofit Leadership (MNL), and an Executive Master of Public Administration (EMPA) degree. Please see below for the Requirements of each degree.

M.P.A.

REQUIREMENTS

Substantive Core (30)

PA 511	Public Administration	3
PA 513	Administrative Ethics and Values	3
PA 533	Public Policy: Origins and Process	3
PA 534	Administrative Law	3

PA 540	Administrative Theory and Behavior	3
PA 551	Analytic Methods in Public Administration I	3
PA 552	Analytic Methods in Public Administration II	3
PA 582	Public Budgeting	3
PA 585	Financial Management in the Public Sector	3
PA 590	Human Resource Management in the Public Sector	3

PA 585: (or economics course approved by adviser)

Skill Development (9)

Three of the following:

PA 525	Grantwriting for Nonprofit Organizations	3
PA 536	Strategic Planning	3
PA 545	Organizational Development	3
PA 549	Cross-cultural Communication in the Public Sector	3
PA 555	Program Evaluation and Management	3
PA 556	Public Contract Management	3
PA 594	Enhancing Diversity in the Workplace	3

Other courses not listed here but appropriate to the educational goals of the student may be selected to fulfill the skill development requirements with consent of the student's adviser.

Integrative Experience (6)

The integrative experience is offered under two options and is available to students only after they have completed at least 42 credits in their master's program.

Option 1

Intended for students who have had limited or no administrative experience.

PA 509	Organizational Experience	1-6
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Option 2

For those students who have had at least three years of full-time administrative or management experience in public or nonprofit organizations.

PA 512	Case Analysis	3-6
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Field of Specialization (15)

The MPA program offers the following formal fields of specialization: nonprofit management, natural resources policy and administration, local government, global leadership and management, and human resource management. Students may also work with their advisor to design their own specially designed field of specialization. Students declare an intended field of specialization by the time they complete 30 credits of the MPA program by

filing a “field of specialization” form with a proposed program of study. The specialization and program of study may be changed based upon consultation with the faculty advisor.

Requirements for the formal fields of specialization are:

Nonprofit Management: Four required courses and one elective course. One of the four required courses in this specialization substitutes for the required budgeting course in the core of the program, allowing students to take an additional elective course.

Natural Resources Policy and Administration: One required and four elective courses.

Local Government: Two required and three elective courses.

Global Leadership and Management: Two required and three elective courses.

Human Resource Management: Two required and three elective courses.

Students are encouraged to work with their advisors to take advantage of course offerings in other academic units, as well as other professional experiences that may be recommended by faculty advisors. Detailed information on specializations can be found at www.pdx.edu/hatfieldschool/public-administration.

Diversity

At some point within their program of study students must satisfactorily complete one course the primary focus of which is diversity. This does not require additional credit hours or coursework beyond the 60 credit requirement and can include courses taken as skill development or specialization classes. Course options include, but are not limited to the following.

PA 549	Cross-cultural Communication in the Public Sector	3
PA 593	Civil Rights for Public Managers	3
PA 594	Enhancing Diversity in the Workplace	3
PA 529	Nonprofit Field Study in Oaxaca, Mexico	3-6
PA 547	Culture, Values and Leadership	3
PA 523	Nongovernmental Organizations: Nonprofits on the World Stage	3
PA 514	Global Leadership and Management	3
PA 544	International Field Experience	3

Other courses can be approved by the adviser.

HEALTH ADMINISTRATION M.P.A.

The Department of Public Administration offers a Master of Public Administration: Health Administration degree. Students admitted to this degree are required to complete 60 credits of coursework. For students interested in

geriatrics, gerontology, and the administration of aging programs, the Institute of Aging offers a Graduate Certificate in Gerontology, which may be earned in conjunction with the MPA:HA degree.

REQUIREMENTS

Required Courses (39)

PA 511	Public Administration	3
PA 533	Public Policy: Origins and Process	3
PA 534	Administrative Law	3
PA 551	Analytic Methods in Public Administration I	3
PA 552	Analytic Methods in Public Administration II	3
PA 582	Public Budgeting	3
PA 590	Human Resource Management in the Public Sector	3
PA 540	Administrative Theory and Behavior	3
PAH 570/HSMP 570	Health Administration	3
PAH 571/HSMP 571	Health Policy	3
PA 513	Administrative Ethics and Values	3
PAH 574/HSMP 574	Health Systems Organization	3
PAH 586/HSMP 586	Introduction to Health Economics	3

Elective Courses (15)

Elective courses must be approved by your faculty advisor.

For each elective course you are considering, write a paragraph on how that course will help you with your career/professional development. For students with little or no experience in the health care sector, it is advised that you take PA 504 Cooperative Education within your first twelve months of the program.

Field of specialization

MPA: HA students must complete at least 30 credits that are health care specific by graduation. Consult with your advisor to verify acceptability of any courses counted towards the specialization that do not have a PAH prefix.

Integrative Experience (6)

The integrative experience is offered under two options and is available to students only after they have completed at least 42 credits in their master's program.

Option 1

Intended for students who have had limited or no administrative experience, or those who wish to complete an applied field experience.

PAH	Practicum	1-6
509/HSMP		
509		

Option 2

For those students who have had at least three years of full-time administrative or management experience in public, nonprofit, and/or health care organizations. Advisor approval required.

PA 512	Case Analysis	3-6
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Diversity

At some point within their program of study students must satisfactorily complete one course the primary focus of which is diversity. This does not require additional credit hours or coursework beyond the 60 credit requirement and can include courses taken as skill development or specialization classes. Courses options include, but are not limited to the following.

PA 549	Cross-cultural Communication in the Public Sector	3
PA 593	Civil Rights for Public Managers	3
PA 594	Enhancing Diversity in the Workplace	3
PA 529	Nonprofit Field Study in Oaxaca, Mexico	3-6
PA 547	Culture, Values and Leadership	3
PA 523	Nongovernmental Organizations: Nonprofits on the World Stage	3
PA 514	Global Leadership and Management	3

Other courses can be approved by the adviser.

Subtotal: 60

COLLABORATIVE GOVERNANCE GRADUATE CERTIFICATE

To receive the Graduate Certificate in Collaborative Governance students must complete a minimum of 16 credit hours. Participation in the Hatfield School's executive seminar on natural resources may substitute as an elective.

REQUIREMENTS**Core Courses**

PA 575	Foundations of Collaborative Governance	3
PA 576	Collaborative Governance Process and Systems	3
PA 578	Collaborative Governance Practicum	3

USP 584	Negotiation in the Public Sector	4
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Elective Courses

Choose one: Other courses may be counted for credit by approval of the faculty adviser.

CR 510	Conflict and Dialogue	4
CR 510	Environmental Conflict Resolution	4
CR 515	Negotiation	4
CR 524	Advanced Mediation	4
CR 526	Intercultural Conflict Resolution	4
PA 543	Creating Collaborative Communities	3
PA 553	Sustainable Development Policy and Governance	3
PA 564	Current Issues in Environmental Policy and Administration	3
PA 577	Case Studies in Collaborative Governance	3
SySc 511	Systems Theory	4
USP 550	Participatory Planning	3
USP 619	Development Partnerships	3

EXECUTIVE M.P.A.

The Executive MPA offers a work-centered curriculum with a focus on taking leadership initiative. Students are required to have 10 years of significant work experience. The program is offered in a cohort model which facilitates course sequencing that maximizes learning that carries over from one course to another. Students are required to complete the following 45 credits of coursework.

REQUIREMENTS**Core courses (39)**

PA 513	Administrative Ethics and Values	3
PA 517	Leadership Development for Public Organizations	3
PA 518	Leading Public Organizations	3
PA 533	Public Policy: Origins and Process	3
PA 534	Administrative Law	3
PA 539	National Policy Process	3
PA 540	Administrative Theory and Behavior	3
PA 544	International Field Experience	3
PA 545	Organizational Development	3
PA 547	Culture, Values and Leadership	3
PA 552	Analytic Methods in Public Administration II	3
PA 583	Advanced Budgeting Concepts and Techniques	3
PA 590	Human Resource Management in the Public Sector	3

Capstone Requirement (6)

Students will register for the following two courses to complete their capstone, a culminating project intended to demonstrate mastery of the core skills taught in the program as applied to a real-life problem of public management:

PA 510	Selected Topics	0-6
PA 512	Case Analysis	3-6

Diversity

At some point within their program of study students must satisfactorily complete one course the primary focus of which is diversity. This does not require additional credit hours or coursework beyond the existing 45 credit hours. EMPA students normally complete two courses with this focus (PA 547 Culture, Values, & Leadership and PA 544 International Field Trip), but the requirement is applicable to students in the program since there are rare situations in which a particular student may not participate in the international experience. Courses options would include, but are not limited to the following:

PA 549	Cross-cultural Communication in the Public Sector	3
PA 593	Civil Rights for Public Managers	3
PA 594	Enhancing Diversity in the Workplace	3
PA 529	Nonprofit Field Study in Oaxaca, Mexico	3-6
PA 523	Nongovernmental Organizations: Nonprofits on the World Stage	3
PA 514	Global Leadership and Management	3

Other courses can be approved by the adviser.

Subtotal: 45

MASTER OF NONPROFIT LEADERSHIP

This program is in the process of applying for approval from the Oregon Higher Education Coordinating Commission.

The Master of Nonprofit Leadership is designed to meet the needs of working professionals in the nonprofit sector and is thus offered in an accommodating format (mirroring the MPA program)—allowing students to apply and matriculate in fall, winter, and spring quarters, and proceed through the program in either full-time or part-time status.

The program is comprised of 54 credits.

Coursework will include a core area of knowledge (33 credits) which includes the following: Foundational Knowledge (12 credits); Fundamentals of Nonprofit Management (12 credits); and, Analytic Skills (9 credits).

CORE: FOUNDATIONAL KNOWLEDGE

PA 528	Leadership for the Nonprofit Sector	3
PA 521	History And Foundations of the Nonprofit Sector	3
PA 513	Administrative Ethics and Values	3

Choose one:

PA 547	Culture, Values and Leadership	3
PA 549	Cross-cultural Communication in the Public Sector	3
PA 594	Enhancing Diversity in the Workplace	3
PA 593	Civil Rights for Public Managers	3
SW 539	Social Justice in Social Work	3

Subtotal: 12

CORE: FUNDAMENTALS OF NONPROFIT MANAGEMENT

PA 522	Governance of Nonprofit Organizations	3
PA 540	Administrative Theory and Behavior	3
PA 526	Fundamentals of Fundraising in Nonprofit Organizations	3
PA 524	Financial Management in Nonprofit Organizations	3

Subtotal: 12

CORE: ANALYTIC SKILLS

PA 551	Analytic Methods in Public Administration I	3
PA 552	Analytic Methods in Public Administration II	3
PA 555	Program Evaluation and Management	3

Subtotal: 9

ADVOCACY, POLICYMAKING, AND COMMUNITY CHANGE**Required course**

PA 538	Advocacy and Political Participation by Nonprofit Organizations	3
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Choose one elective from the following:

PA 543	Creating Collaborative Communities	3
PA 519	Civic Capacity	3
PA 533	Public Policy: Origins and Process	3
PA 534	Administrative Law	3
PS 524	Law, Politics, and Society	4

PS 517	Interest Groups	4
PS 559/USP 636	Political and Economic Decision-making	3
USP 528	Concepts of Community Development	3
USP 584	Negotiation in the Public Sector	4
CR 515	Negotiation	4
CR 523	Dialogue Across Differences	4

Total credits, Advocacy, Policymaking, and Community Change requirement: 6-7

ELECTIVE COURSES

(Students choose 3 courses from PA or another academic unit as approved by their faculty advisor. Recommended concentrations will be provided.)

Electives	9
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ORGANIZATIONAL EXPERIENCE

PA 509	Organizational Experience	6
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Total Credit Hours: 54

NONPROFIT AND PUBLIC MANAGEMENT GRADUATE CERTIFICATE

The Graduate Certificate in Nonprofit and Public Management consists of 21 credit hours of graduate course work in Public Administration with an emphasis in either public or nonprofit management. The certificate is intended to provide existing and aspiring middle managers in nonprofit and public organizations with the knowledge and skills necessary to be successful in carrying out their administrative responsibilities.

REQUIREMENTS

Required courses (6)

PA 511	Public Administration	3
PA 540	Administrative Theory and Behavior	3

Elective courses (15)

Students must take five courses, and should meet with an advisor to plan a suitable complement of courses to meet their individual interests and professional development needs. Substitutions may be made with the permission of the academic advisor. Courses may be drawn from any of six content/skill areas.

General Management

PA 513	Administrative Ethics and Values	3
PA 520	Introduction to Nonprofit Management	3

PA 522	Governance of Nonprofit Organizations	3
PA 536	Strategic Planning	3

Finance and Budgeting

PA 524	Financial Management in Nonprofit Organizations	3
PA 525	Grantwriting for Nonprofit Organizations	3
PA 526	Fundamentals of Fundraising in Nonprofit Organizations	3
PA 582	Public Budgeting	3
PA 583	Advanced Budgeting Concepts and Techniques	3
PA 585	Financial Management in the Public Sector	3

Leadership and Human Resource Management

PA 570	Environmental and Natural Resource Leadership	3
PA 517	Leadership Development for Public Organizations	3
PA 528	Leadership for the Nonprofit Sector	3
PA 590	Human Resource Management in the Public Sector	3
PA 592	Volunteerism and Volunteer Management	3
PA 594	Enhancing Diversity in the Workplace	3
PA 598	Values-based Management I	3

Community Building and Communication

PA 541	Social Entrepreneurship	3
PA 527	New/Emerging Nonprofits: Development and Management	3
PA 543	Creating Collaborative Communities	3
PA 545	Organizational Development	3
PA 549	Cross-cultural Communication in the Public Sector	3

Public and Nonprofit Sector

PA 520	Introduction to Nonprofit Management	3
PA 521	History And Foundations of the Nonprofit Sector	3
PA 522	Governance of Nonprofit Organizations	3
PA 524	Financial Management in Nonprofit Organizations	3
PA 533	Public Policy: Origins and Process	3
PA 534	Administrative Law	3

Specific Management Skills

PA 538	Advocacy and Political Participation by Nonprofit Organizations	3
PA 550	Managing Information Resources	3
PA 555	Program Evaluation and Management	3
PA 558	Managing Public Projects and Programs: From Local to Global	3

SUSTAINABLE FOOD SYSTEMS GRADUATE CERTIFICATE

The Food Systems certificate will utilize a “Certificate Outcomes Matrix”, an innovative curriculum model comprised of certificate outcomes on the X-axis and courses offered on the Y-axis. Based on student interest and the quarter a class is offered, students will select courses that have been determined to meet the specific outcomes outlined in Table 1. Students will use the Certificate Outcomes Matrix or the Certificate Outcomes Matrix Table View as a guide to planning their curriculum path. Each graduate level course being offered in our program has been “mapped” onto our matrix and table view to reflect its course objectives that will facilitate student learning in core competencies of the certificate program. (See appendix A for the certificate outcomes matrix, and appendix H for the table view.)

The certificate will be awarded at a minimum of 18 credits depending on the courses chosen and their respective credit hours. Outcomes will be satisfied on a per class basis and students may take only one course per outcome, requiring a minimum of 6 courses. In addition to the courses relevant to the certificate outcomes, matriculated students have the option to combine other program requirements such as 504 / 506/ 509 courses or a community based learning experience to satisfy Learning Outcome 3 for up to 6 credits. An independent study may also be pursued with approval from the program director or other designated faculty.

DOCTORAL DEGREES

The Department of Public Administration cooperates with other units within the College of Urban and Public Affairs to offer a doctoral degree in public affairs and policy. For details, see the program descriptions.

Doctoral Degrees

The Department of Public Administration cooperates with other units within the College of Urban and Public Affairs to offer a doctoral degree in public affairs and policy. For details, see the program descriptions.

RESEARCH CENTERS AND INSTITUTES

Criminal Justice Policy Research Institute

550 Urban Center

503-725-4014

<http://www.pdx.edu/cjpri/>

The institute is a multi-disciplinary research unit serving the entire PSU community, but affiliated with the Criminology and Criminal Justice Division of the School of Government. It is designed to provide policy makers throughout the state with a forum in which issues of policy and practice may be explored, using objective, performance-based criteria. It is also designed to bring together the varied resources of Portland State University and coordinate those resources with other institutions of higher education to address issues emanating from the justice community. The institute has an external advisory board, representing a broad cross-section of justice agencies, which serves to focus attention on issues of concern to the community, state, and region.

Projects currently underway, or recently completed by faculty associated with the institute, include:

- National Evaluation of Safe Start Promising Approaches,
- Project Safe Neighborhoods Gun Violence Reduction,
- Portland and Gresham Weed & Seed Efforts,
- Evaluation of Oregon Law Enforcement Traffic Stops,
- Public Perceptions of Oregon Law Enforcement,
- Risk Assessment in Portland Police Bureau’s Domestic Violence Reduction Unit,
- Tactical Ethics – Perspectives on Profiling Training, and the Oregon Law Enforcement Contacts Policy & Data Review Committee
- Portland Police Bureau Neighborhood Involvement Locations (NI-Loc) Project.

Center for Public Service

570 Urban Center

503-725-8261

www.pdx.edu/cps

The Center for Public Service draws on the extensive expertise of faculty and students within the Public Administration, Political Science, and Criminology and Criminal Justice departments of PSU’s Mark O. Hatfield School of Government, with a broad mandate to connect PSU’s research capabilities and public service mission with real-world challenges in the public and nonprofit sectors. As part of its effort to forge productive and sustainable relationships with leaders at the local, state, federal, and international levels, the Center offers a wide range of

leadership training and applied research capabilities. Located within CPS are the Nonprofit Institute (NPI) and the Institute for Tribal Government (ITG), along with a number of discrete programs such as First Stop Portland (FSP), the Executive Seminar Program (ESP), and the Initiative for Community and Disaster Resilience (ICDR).

In the specific area of leadership development, CPS offers a wide range of education, specialized training, and research programs that serve elected officials and public and nonprofit sector leaders throughout the Oregon/SW Washington area, as well as in international venues such as Vietnam, Japan, China, Korea and Thailand. These offerings include an Executive MPA degree for experienced practitioners; custom-designed leadership development programs; and applied research and technical assistance across a wide range of fields including diversity and inclusion, change management, and organizational performance.

Nonprofit Institute

570 Urban Center
503-725-8261
<http://www.pdx.edu/nonprofit-institute/>

The Nonprofit Institute (NPI) operates out of the Center for Public Service in the Mark O. Hatfield School of Government. Its mission is to support the Oregon nonprofit sector so that it can fulfill its promise to bring people together to build a more just, inclusive and sustainable society. To support this mission, NPI:

- Builds the sector's capacity to organize, learn and lead;
- Strengthens and grows its networks;
- Tells the sector's story and articulates its promise;
- Advances vanguard issues collectively and across sectors. These goals are accomplished through a set of integrated strategies:
 - Conducts primary research and collates scholarship generated by others to create a knowledge-bank that can be used to advance the organizational design, governance, and practice of nonprofit organizations. Emphasis is placed on applied research that generates knowledge of immediate relevance to address the needs and missions of nonprofits.
 - Strengthens the capacity of nonprofit organizations in Oregon to engage in culturally appropriate evidence-based evaluation and assessment practices to enhance organizational performance and increase impact.

- Advances professional development for members of nonprofit and community-based organizations.
- Offers high quality academic programs and learning opportunities that address a changing nonprofit landscape and shift in focus to community-building for both today's leaders and the next generation leaders in the nonprofit sector.
- Facilitates discussions and collaborations that build networks and bring people together to share knowledge, reflect on practice, and generate new ideas to engender greater collective impact. We believe that these goals strengthen civic life and participation, and collectively impact the pressing issues of society.

Institute for Tribal Government

570-T Urban Center
503-725-9000
<http://www.pdx.edu/tribal-gov/>

The Institute for Tribal Government, housed within the Center for Public Service, is a national leader in its field, providing elected tribal leaders with the information and leadership skills to work with tribal, state, local, and federal governments within a wide range of related policy issues. Tribal leaders are offered programs to meet their own unique needs either with sessions at the Hatfield School or at tribal sites. Programs are available for addressing federal Indian law, tribal government duties and responsibilities, tribal and state relations, the federal legislative process, federal judicial and administrative procedures, and effective tribal leadership strategies.

Certificate in Tribal Relations (CTR) Program:

In addition to organization-specific training, the Institute also offers a 10-month Certificate in Tribal Relations program. The cohort runs October-August and applications are due September 15th. This program is designed for mid-career professionals employed by local, state, federal, and regional government agencies, non-profit and for-profit organizations, and trade associations who work regularly with tribal nations and native communities, members of a tribal government, and other native communities interested in collaborative governance. Cohort members attend three out-of-class learning experiences such as trips to Washington, DC, Salem, OR, and tribal communities in order to better understand tribal policy making at multiple levels of governance.

Center for Turkish Studies

570-L Urban Center
503-725-8309
www.pdx.edu/turkish_studies_center/

The Center for Turkish Studies (CTS) is located in the Mark O. Hatfield School of Government in the College of Urban and Public Affairs. The Center's faculty covers diverse academic disciplines and come from departments across Portland State University and other universities in the US, Europe, Turkey, and North Cyprus. Our mission is to foster collaboration between PSU and universities in Turkey, engage in academic research in social sciences and its application to policy making, organize conferences, panel discussions and cultural activities for academic and public engagement. We are committed to providing decision-makers, academics, and general public with innovative and objective analyses in key policy issues pertaining to Turkey-US and EU-Turkey relations. The CTS has expertise in a wide range of areas, including, but not limited to, Turkey-EU-U.S. relations, conducting the World Values Survey in Cyprus and current developments in Turkey. In these venues, the Center for Turkish Studies enriches Portland State University's scholarly works and contributes to Portland State University's internationalization initiative.

National Policy Consensus Center

720 Urban Center
503-725-9077

www.pdx.edu/npcc

The National Policy Consensus Center advances the use of innovative collaborative governance methods in Oregon and nationally by providing collaboration services, university courses, professional training, and research. We help people work together collaboratively to develop public policy and implement community-based solutions. NPCC provides the following services:

Collaboration and Community Engagement Services:

We help government, nonprofits, the private sector, and communities collaborate to:

- Resolve public disputes
- Seek agreement on new public policies
- Implement community solutions collaboratively to improve local economies and quality of life
- Increase public participation that has a collective impact on public issues

Education and Professional Training: We offer academic programs and customized professional training to prepare students and professionals to:

- Use consensus-seeking to resolve policy disputes
- Apply collaborative approaches in their current professions
- Work in the fields of conflict resolution and public engagement

Applied Research and Development: We have several state and national programs that work on the ground to:

- Pilot special projects to test innovative practices in collaborative governance and public engagement
- Work with other states to advance the use of collaborative governance approaches nationwide
- Publish collaboration resource materials

Center for Women's Leadership

665 Urban Center
503-725-2895

<http://www.pdx.edu/womens-leadership/>

The Center for Women's Leadership, housed within the Mark O. Hatfield School of Government, is changing the way leadership looks from the ground up. Through targeted teaching programs for women and girls, community events, the Big Talk speaker series featuring notable women leaders, educational programming and skills trainings, our Center is building a diverse group of emerging women leaders in communities across the state. The Center works toward this by promoting scholarship that examines the presence and role of women in leadership, business, and public policy and by providing diverse and inclusive service programs that will develop the next generation of women leaders who will serve the city, state, region and nation. Current programs include National Education for Women's (NEW) Leadership Oregon, a competitive intensive leadership skills training program for women enrolled in higher education, with mentoring support and multiple future opportunities embedded in the structure and the Girls: Oregon, Action, Leadership, Service Summit Program, beginning with an annual conference for high school girls hosted at PSU with year long opportunities for connection and action. The Center promotes women's leadership through public and private sector outreach, hosting activities and awareness raising, collaborating with partner organizations, and highlights women's successes in our educational programming.

Nohad A. Toulan School of Urban Studies and Planning

350 Urban Center
503-725-4045

www.pdx.edu/usp/

- B.A., B.S.—Community Development
- Minor in Community Development
- Minor in Real Estate Development
- Minor in Sustainable Urban Development

- Graduate Certificate in Applied Social Demography
- Graduate Certificate in Energy Policy and Management
- Graduate Certificate in Real Estate Development
- Graduate Certificate in Transportation
- Graduate Certificate in Urban Design
- MRED—Master of Real Estate Development
- M.U.R.P. – Master of Urban and Regional Planning
- M.U.S. – Master of Urban Studies
- Ph.D. – Urban Studies, Urban Studies: Regional Science

The Toulan School of Urban Studies and Planning provides an interdisciplinary approach to understanding urban places. The school's programs are structured to allow students living or working in the Portland metropolitan area to take advantage of the broad range of resources available at Portland State University and in the community.

Undergraduates can major in community development or complement their bachelor's degree in another field by concurrently meeting the curricular requirements for a minor in community development, real estate development or sustainable urban development. Students interested in developing professional planning skills may pursue a Master of Urban and Regional Planning. The M.U.R.P. degree is fully accredited by the Planning Accreditation Board. Interest in developing urban research capabilities may be pursued through a Master of Urban Studies. Individuals desiring higher levels of research skills and/or academic employment may choose the Ph.D. in urban studies.

Undergraduate programs

The Toulan School of Urban Studies and Planning offers an undergraduate major in community development. Community development is a process in which people act together to promote the social, economic, political, and physical well-being of their communities. Career opportunities are available in not-for-profit organizations, private consulting firms, and state, regional, and local governments. Community development practitioners work on a range of issues including housing, community organizing, transportation, the environment and economic development. The major prepares students for postbaccalaureate employment or graduate work in a professional or academic field.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for School of Urban Studies and Planning's undergraduate

degrees, go to www.pdx.edu/academic-programs/undergraduate-programs.

ADMISSION REQUIREMENTS

Students must be formally admitted to the community development program by submitting an application to the Toulan School of Urban Studies and Planning. Information regarding application criteria, procedures, and deadlines can be found either on the Web site for the Toulan School or by contacting the school office directly.

Students may take courses in the major before formal admission. Students must have a GPA of 2.75 or higher in order to be admitted to the Community Development major. No application is required.

FORMS

To declare your major with University Admissions, use the Student Information Change Form available from the Admissions Office in Neuberger Hall or online at http://www.pdx.edu/media/s/t/student_info_change.pdf. This form should be returned to Admissions Office in Neuberger Hall.

DEGREE REQUIREMENTS

Requirements for majors

In addition to the general University degree requirements, students in community development must complete the following degree requirements. Substitution of coursework is acceptable only by permission from the School.

COMMUNITY DEVELOPMENT B.A./B.S.

Overview

The Portland area is an exciting place to enroll in our undergraduate major in community development. We understand community development as a process in which people act together to promote the social, economic, political, and physical well being of their community. Students graduating with a degree in community development will be citizen activists, empowered to take leadership roles in public affairs.

Community-based participation in all aspects of government planning and administration is an established part of the political culture of our region. Neighborhood associations are actively involved in land use, housing, and transportation issues. The City of Portland has been practicing community-oriented policing for several years. Public schools are establishing community-based management councils and involving local business firms in curricular design. Community development corporations are growing rapidly in the range and sophistication of their activities. New community-oriented financial institutions and public-private partnerships are emerging to build and

maintain affordable housing and to create jobs. We anticipate continued growth in these kinds of activities in the years ahead.

Community Development majors often find careers in not-for-profit organizations, private consulting firms, advocacy groups, and local, regional and state governments. Locally, a graduate may find a career with the City of Portland, Portland Bureau of Housing and Community Development, METRO, or any of Portland's community development corporations. Community development practitioners work on a range of issues including housing, community organizing, transportation, the environment, and economic development.

For more information about careers in Community Development please see Portland State's Career Center's What Can I do with a Major in Community Development: <http://www.pdx.edu/careers/majorcommunitydevelopment.html>.

Community Development Learning Objectives

Graduates should be prepared for professional practice wherein they will:

1. **Think critically** using appropriate theoretical perspectives about community and community building; apply theoretical frameworks to analyze the elements of a community and understand the various forces working on it; differentiate evaluation from judgment; and evaluate their own perspectives.
2. **Understand the importance of place:** appreciate the sense of place that exists in all communities; observe the ways in which the natural and built environment of a community affects its social structures; and observe the ways in which locality is important to personal identity in a given community.
3. **Uphold the values of democratic decision-making and participatory planning:** enable people in the community to identify their assets and define their needs; include the public in defining the public good; and encourage self-governance.
4. **Commit to civic engagement and civic responsibility:** be informed about local issues; act from a motivation to give back to the community; step readily into the community organizer's role; and be entrepreneurial in support of the development of communities.
5. **Build human capital:** help to build community leadership; impact the development of others in a positive way; build community consensus; and facilitate communication to support community solidarity.
6. **Act to promote social justice:** recognize and appreciate social, cultural, and economic diversity; work against discrimination based on facts such as

social class and race; work to empower the disenfranchised; and commit to inclusionary practice.

7. **Understand the importance of maintaining an international perspective and awareness in Community Development:** appreciate the diverse needs and perceptions of the global community, especially the Developing World; observe the ways in which actions in the developed world impact the Developing World; appreciate the unique assets of local global communities; appreciate the ways in which locality is important to community and personal identity; understand similarities and differences between domestic and international community development.

Curriculum

Community-based participation in all aspects of government planning and administration is an established part of the political culture of our region and an important element of a sustainable future. Neighborhood associations are actively involved in land use, housing, and transportation issues. The City of Portland has been practicing community-oriented policing for several years. Public schools are establishing community-based management councils and involving local business firms in curricular design. Community development corporations are growing rapidly in the range and sophistication of their activities. New community-oriented financial institutions and public-private partnerships are emerging to build and maintain affordable housing and to create jobs. We anticipate continued growth in these kinds of activities in the years ahead.

The curriculum is grounded in applied social science and incorporates a great deal of field research. The program takes advantage of the wealth of resources available in the Portland metropolitan area and draws from a variety of academic disciplines and departments.

In addition to the general University degree requirements, students in community development must complete the following degree requirements. Substitution of coursework is acceptable only by permission from the faculty adviser.

REQUIRED CORE CURRICULUM (46 CREDITS)

Community Development Core (12 credits)

The Community Development program begins with three core courses that introduce students to the social, political, cultural and economic aspects of urban life and to the theory and practice of community development.

USP 300U	Introduction to Urban Studies	4
USP 301	Introduction to Community Development	4
USP 302	Theory and Philosophy of Community Development	4

[Prerequisite: USP 301; or, by permission of instructor] (4 cr)

Areas of Community Development (12 credits)

Students will then move on to three courses that introduce major themes in community development. Students are strongly encouraged to complete USP 300 and USP 301 before taking any of the following classes.

USP 312U	Urban Housing and Development	4
USP 313U	Urban Environmental Issues	4
USP 316	Community Organizing and Social Change	4

Methods in Community Development (16 credits)

Students are required to enroll in the following 4 methods courses. These courses are designed to provide students with a basic set of skills and tools they will need to perform community development work in the real world. Students should complete the Community Development Core (USP 300/USP 301/USP 302) before enrolling in the methods courses.

USP 350U	Inclusive Engagement	4
USP 430	Participatory Research Methods for Community Development	4
USP 440	Measuring People and Communities in the Urban Context	4
USP 452	GIS for Community Development	4

Practice in Community Development (6 credits)

An essential part of the major is gaining experience in the practice of community development. Students can fulfill this 6 credit requirement by: (1) enrolling in a Community Development Field Seminar; (2) organizing an Internship that is approved by their faculty advisor; (3) organizing a practicum with other students and a faculty advisor; or, (4) enroll in field seminar or practice-oriented class in another department that is approved by the Undergraduate Executive Committee. Students are encouraged to take at least one course from Methods in Community Development before enrolling in USP 460 or starting an internship.

USP 460	Community Development Field Seminar	6
	Internship option	6

Elective Pathways (12 credits)

Students must take 12 credits of electives (8 of which must be from USP courses). Courses eligible to serve as electives can include any 300 or 400-level USP course which is not a required core curriculum course. USP 403 - Thesis and USP 409 - Practicum cannot be used to satisfy elective requirements. It is recommended that students organize their elective courses around areas of community development they are interested in pursuing further—what

we refer to as a “pathway.” Pathways are self-designed in coordination with faculty advisors.

USP Elective Courses:

USP 311U	Introduction to Urban Planning	4
USP 314U	The City in Film	4
USP 317U	Introduction to International Community Development	4
USP 324U	Healthy Communities	4
USP 325U	Community and the Built Environment	4
USP 326U	Neighborhood Conservation and Change	4
USP 360/RE 360	Real Estate Finance I	4
USP 385U	History of American Cities	4
USP 386U	Portland Past and Present	4
USP 419/Soc 441	Population and Society	4
USP 427	Downtown Revitalization	3
USP 429	Poverty in the Urban Community	3
USP 445/Intl 445	Cities and Third World Development	3
USP 451	Community Economic Development	3
USP 455	Land Use: Legal Aspects	3
USP 456	Urban Transportation: Problems and Policies	3
USP 457	Information Cities	3
USP 468	Oregon Land Use Law	3
USP 480	Political Economy of Nonprofit Organizations	3
USP 490	Green Economics and Sustainable Development	3

USP 314U, USP 457: (Offered every other year)

NOTE: USP 403, USP 409, and USP 460 may not be used to satisfy the USP electives requirements.

CUPA Elective Courses:

PS 319	Politics of the Environment	4
PS 331	Oregon Politics	4
PS 428	The Politics of Law and Order	4
PS 431	State and Local Politics	4
PA 311U	Introduction to Civic Engagement	4
PA 312U	Foundations of Community Leadership	4
PA 313U	Fundamentals of Public Service	4
PA 412	Civic Engagement: The Role of Governing Institutions	4
PA 413	Civic Engagement: The Role of Individuals	4
PA 414	Civic Engagement: The Role of Social Institutions	4
PA 417	Ethical Leadership	4

Advising

Students who have already completed coursework in the major before Fall 2013 should meet with the Community Development Student Advisor to ensure a smooth transition to the new requirements.

COMMUNITY DEVELOPMENT MINOR

REQUIREMENTS

To earn a minor in community development a student must complete 27 credits.

These courses must include:

USP 300U	Introduction to Urban Studies	4
USP 301	Introduction to Community Development	4
USP 302	Theory and Philosophy of Community Development	4

A minimum of 15 credits of additional USP coursework must be taken. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling minor requirements. Students who have already completed some of the requirements from the minor before Fall 2013 should meet with the Community Development Student Advisor to ensure a smooth transition to the new requirements.

REAL ESTATE DEVELOPMENT MINOR

REQUIREMENTS

The development and management of real estate is a vital function of the urban economy. The real estate development minor will provide education to students wanting to enter the industry. Students in the program will develop skills to evaluate real estate development proposals and understand how real estate development fits into regional planning and economic processes.

Courses

USP 233	Real Estate Principles	3
USP 311U	Introduction to Urban Planning	4
USP 312U	Urban Housing and Development	4
USP 360/RE 360	Real Estate Finance I	4
USP 431/RE 431	Urban Economics	4
USP 438/RE 438	Real Estate Law	3

Electives (6)

RE 439	Real Estate Valuation I	4
USP 325U	Community and the Built Environment	4

USP 326U	Neighborhood Conservation and Change	4
USP 360/RE 360	Real Estate Finance I	4
USP 427	Downtown Revitalization	3
USP 428	Concepts of Community Development	4
USP 451	Community Economic Development	3
USP 455	Land Use: Legal Aspects	3
USP 468	Oregon Land Use Law	3
Subtotal: 32		

SUSTAINABLE URBAN DEVELOPMENT MINOR

REQUIREMENTS

As population worldwide becomes concentrated in cities and metropolitan regions, it has become imperative that urban development occur in a sustainable and resilient manner. The minor in Sustainable Urban Development will provide students with an opportunity to further their understanding of what it will take to make cities sustainable. Students who complete the minor will understand the foundations of sustainability, the tools of sustainable development, and the issues and challenges of making places sustainable. UnSt 224 Environmental Sustainability (or a suitable alternative) is a prerequisite. The minor requires a total of 27 credits as follows:

Courses

USP 313U	Urban Environmental Issues	4
USP 324U	Healthy Communities	4
USP 325U	Community and the Built Environment	4
USP 490	Green Economics and Sustainable Development	3
Twelve elective credits from the approved list		12

Graduate programs

With over half of the world's population now living in urban areas, the challenge of creating and maintaining urban places as high quality, healthy, vital places for people has never been more important. Our expectation is that recipients of the graduate degrees and certificates offered by the Toulon School of Urban Studies and Planning will be in the forefront of those efforts, contributing professional leadership and new knowledge in support of this first "urban century".

GRADUATE ASSISTANTSHIPS

Financial aid programs are administered without regard to race, creed, national origin, handicap, marital status, or sex.

The school awards a significant number of graduate assistantships to qualified students. Assistantship awards are reviewed annually and can be renewed for up to two additional years. More advanced students may compete for dissertation fellowships.

ADMISSION REQUIREMENTS

All qualified applicants receive consideration for admission without regard to sex, race, handicap, age, creed, marital status, or national origin.

In addition to the general University requirements (p. 8), requirements for applications to the Toulon School of Urban Studies and Planning are outlined below and can be found at www.pdx.edu/usp/.

Master of Real Estate Development

An essay of intent, two recommendations, a resume, a standardized GRE or GMAT exam. MRED students are admitted for fall term only, with three application deadlines: November 1 (early admission), February 1 (scholarship eligibility), and April 1 (priority admission). Admission is handled jointly between the School of Urban Studies and Planning and the School of Business Administration. Applicants should consult: <http://www.mred.pdx.edu>.

Master of Urban and Regional Planning

A personal essay and three recommendations, on the forms provided, are required from individuals familiar with the student's academic or professional background. Graduate Record Examination scores are not required, but highly recommended. For the M.U.R.P. program, students are admitted for the fall term only. The deadline for fall term applications for the M.U.R.P. program is January 15.

Master of Urban Studies

A letter of intent and three recommendations, on the forms provided, are required from individuals familiar with the student's academic or professional background. Graduate Record Examination scores are required. For the M.U.S. program, students are admitted fall, and winter terms. The deadline for fall term applications for the M.U.S. program is January 15.

Doctor of Philosophy in Urban Studies

A personal essay and three recommendations, on the forms provided, are required from individuals familiar with the student's academic or professional background. Graduate Record Examination scores are required. Ph.D. applicants are strongly urged to complete successfully an introductory statistics course before entering the program. Instructions for the doctoral applicant's personal essay can be found on the School website. For the doctoral program, students are admitted fall term only. The deadline for fall term applications for the Ph.D. program is January 15.

M.R.E.D.

The Master of Real Estate Development (MRED) is a professional degree, training students in the areas of real estate development within the context provided by principles of sustainability, social equity, and community-based development. By its nature, real estate education is multi-disciplinary, involving finance, urban planning, architecture, law, engineering, design, appraisal, and other disciplines. To deliver this education, the MRED degree is a joint degree of the School of Business Administration and the Toulon School of Urban Studies and Planning.

The objective for this program is to provide a unique and exceptional graduate degree that will enable students to assist in the development and management of property with an understanding of the role that such development plays in the context of broader community concerns and history, and in the context of the surrounding neighborhood and city. Students will work closely with high-level industry professionals in their classes and workshops.

The MRED degree is designed to accommodate students with a wide variety of undergraduate degrees and is best suited for students who have gained at least two years of industry experience prior to their admission date. The program is designed to be completed in two years on a part-time basis or one year on a full-time basis. Students will develop their skills in three areas: sustainable urban development, finance and policy, and project development, leading to the Real Estate Development Workshop culminating experience. Students are admitted for fall term only.

CURRICULUM REQUIREMENTS

Sustainable Urban Development

USP 527	Downtown Revitalization	3
USP 569	Sustainable Cities and Regions	4
USP 596	Affordable Housing Finance	3
USP 612	Community, Planning, and Ethics	4

Finance and Policy

RE 521	Real Estate Finance I	4
RE 522	Real Estate Finance II	4
RE 573/USP 573	Housing Economics	4
RE 538S/USP 538	Real Estate Law I	3

Project Development

USP 523	Real Estate Development I	4
USP 546	Real Estate Development II	4
USP 624	Development Project Design	3
RE 531	Executive Perspectives on Real Estate	1

RE 562	Real Estate Development Workshop	4
	Electives	10
Subtotal: 55		

REAL ESTATE DEVELOPMENT WORKSHOP

The culminating experience of the MRED is RE 562 Real Estate Development Workshop. Students in that class form a team that produces a development proposal for a multi-block site in a major city, advised by local industry professionals. Each team will produce a professional report and present their findings before an audience of real estate professionals.

M.U.S.

The Master of Urban Studies provides training for students seeking employment in public and private urban research organizations.

The M.U.S. degree requires a total of 52 credits. M.U.S. students pursue a common core of courses dealing with the analysis of urban phenomena (21 credits). Each student also defines a field area which is pursued through coursework (25 credits) and individual research leading to a thesis (6 credits). In addition, the degree provides for a specialized option in social and policy research.

CORE-AREA REQUIREMENTS

The urban core-area requirements for the M.U.S. degree include the following courses:

Courses

USP 613	Urban Economic and Spatial Structure	3
USP 614	History and Theory of Urban Studies	3
USP 617	The Sociology and Politics of Urban Life	3
USP 630	Research Design	4
USP 634	Data Analysis I	4
USP 683	Qualitative Analysis	4

FIELD-AREA REQUIREMENTS

The student selects a pattern of coursework that equips him or her for research in areas of applied interest. Field areas may focus on urban aspects of social science theory in one of the fields emphasized in the urban studies Ph.D. program or on a substantive issue of particular concern to the student. Relevant courses are available within the School of Urban Studies and Planning and in many other departments within the University. Twenty-five credits of field-area coursework are required.

RESEARCH REQUIREMENTS

The M.U.S. degree requires registration for 6 credits of USP 503 Thesis and completion of a formal thesis.

M.U.R.P.

The Master of Urban and Regional Planning program provides diversified preparation for professional planning practice. Graduates of the program will acquire skills suiting them for employment in public agencies and private firms involved in the urban development process. The program offers students opportunities to develop specialized skills that allow the graduate either to enhance previous work experience or to enter the job market with a more focused area of expertise, in areas such as: transportation, land use, community development, environment, or economic development. This degree is fully accredited by the Planning Accreditation Board.

COURSE REQUIREMENTS

Planning sequence

USP 540	History and Theory of Planning	4
USP 541	Dynamics of Planning Practice	3
USP 550	Participatory Planning	3

and one of the following:

USP 594	Planning in the Pacific Northwest	3
USP 595	Reshaping the Metropolis	3
USP 549	Regional Planning and Metropolitan Growth Management	3

Methods sequence

USP 531	Geographic Information Systems (GIS) for Planners	4
USP 533	Planning Methods I	4
USP 535	Planning Methods II	4
USP 584	Negotiation in the Public Sector	4

Analytical methods

USP 515	Economics: Applications in Urban Studies	4
USP 525	Design Analysis in Planning	2
USP 553	Legal Processes in Urban Planning	1

Workshops

USP 558	Planning Workshop	3-6
USP 559	Internship Seminar	1
	Specializations and Electives	26

Subtotal: 72

FIELD PAPER/PROJECT

Students may choose to prepare an original research paper or project in their field of specialization. The research paper or project is meant to demonstrate a student's ability to integrate and apply material from his or her coursework and is designed in consultation with faculty.

URBAN STUDIES PH.D.

Dynamic metropolitan regions are increasingly seen as central to economic, social, and political development throughout the world. Composed of one or more central cities, suburbs, and adjacent agricultural and natural areas, they are the essential building blocks of the global economy and the sources of social and political innovation. Understanding metropolitan regions and their problems and analyzing policies to shape their evolution are major concerns of the Urban Studies doctoral program. The program explores these issues from multi-disciplinary and interdisciplinary points of view. Through participation in classes and seminars and supervised research and teaching activities, Ph.D. students prepare for careers in institutions of higher education and in research organizations.

CORE REQUIREMENTS

Entering students in the Ph.D. in urban studies take the following common courses:

Courses

USP 613	Urban Economic and Spatial Structure	3
USP 614	History and Theory of Urban Studies	3
USP 617	The Sociology and Politics of Urban Life	3
USP 630	Research Design	4
USP 634	Data Analysis I	4
USP 683	Qualitative Analysis	4
USP 697	Urban Studies Seminar	4

The first six are normally taken in the first year, with USP 697 taken at the beginning of the second year. Students in USP 697 produce a fully developed research paper as a requirement for continuation in the program.

FIELD AREA REQUIREMENTS

Doctoral specializations are available in the following areas of advanced interdisciplinary study: planning, community development, policy analysis, gerontology, social demography, economic development, environment and transportation.

Planning

focuses on the development and implementation of mechanisms for organizing social, economic, political, and environmental change at the local, state, and regional levels. The field includes study of the relationships and interactions among public and private institutions, organizations, citizens, and landscapes; the design of processes for facilitating dialogue among public actors; and the tools for planning analysis and evaluation. As a pioneer in state land use law and a place in which planning discourse is highly visible, Oregon provides a rare vantage point for the study of planning history, planning processes and strategies, and professional practice.

Environment

focuses on urban socio-ecological conditions and interactions in areas such as natural resource management, environmental protection and quality, ecosystem services, food systems, and energy and climate. This includes a foundation in theory and methods that enable: examination of the roles of institutions (both government and non-government), groups and individuals, law and regulation, ethics and values, the market (or lack of a market); the handling of usable knowledge and scientific uncertainty; and the analysis of change in complex socio-technical-biophysical systems.

Community development

deals with the dynamics of neighborhood and community formation and change and with public policies that address the needs of groups and places within contemporary society. The rich civic culture of Portland and the Pacific Northwest and the region's connections to the Pacific Rim provide numerous examples for study and analysis. Within the broad field of community development, students can address such topics as ethnic and neighborhood history, housing and economic development, the roles of public and nonprofit institutions in community building, mediation and conflict resolution, changing patterns and systems of communication, and the changing meanings of place.

Social demography

provides training in the tools of demographic analysis, with particular attention to the methods of data collection, techniques of demographic analysis, and the interpretation of research findings. Social demography involves the use of the principles and methods of demography in decision-making and planning problems in both public and private settings. Graduates in the field of social demography use demographic data to identify and analyze important population trends and their consequences for work in government agencies, research organizations, and corporations. Faculty in the area of social demography have training in demography, sociology, geography, and statistics. Faculty research includes population distribution and migration, international migration, fertility and family planning, marriage and divorce, public policy uses of demographic data and estimates, and demographic methods.

Gerontology

addresses the social issues, problems, policies, and programs that affect the quality of life for our rapidly aging population. Students have the opportunity to work directly with faculty on publicly- and privately-funded research at the College's highly regarded Institute on Aging. Adult development and aging is approached from a multidisciplinary and collaborative perspective. Faculty research interests include: family caregiving and work-family balance, social networks and widowhood, diversity

in aging, long-term care policy and programs, housing environments, development and evaluation of training for health professionals, and planning for the aging of the baby-boom generation and beyond. As a state with a national reputation as a leader in the development of community-based, long-term care, Oregon provides a unique environment for the study of aging processes, policies, and services.

Economic development

is concerned with the factors that lead to differential rates of economic development at various spatial scales: within and between nations, states, regions, cities, and neighborhoods. In analyzing these differences, issues such as the meaning of economic development, who gains and who loses from various changes, as well as analysis of policies to promote economic development, are addressed. The Center for Urban Studies and Institute for Portland Metropolitan Studies offer research opportunities in this field.

Transportation

includes planning, policy, forecasting, measurement, and evaluation of multimodal transportation infrastructure and systems. The multidisciplinary field covers all modes of passenger and freight transport and includes the holistic study of relationships and interactions of the transportation systems with land use, the region, the economy, the environment, institutions, the community, and people. Students can address topics such as impacts of transportation on land use and land values, the relationships between urban form and travel behavior, the costs and benefits of transport facilities, the operation of transportation facilities, equity impacts of transport and the effects of transportation plans and policies. There are opportunities to work on research through the Center for Urban Studies and the Center for Transportation Studies.

Each student pursues two fields of specialization, at least one of which should be chosen from among those listed above. A student-nominated field, developed in conjunction with School faculty, may be offered as a second specialization. Faculty groups specify field-specific course requirements, including methodology courses and courses essential to a multidisciplinary approach. These groups work closely with students to develop coherent specializations that prepare each individual to do doctoral-level research in that field.

URBAN STUDIES—REGIONAL SCIENCE PH.D.

Regional science brings a variety of social science perspectives to bear in analyzing the growth and development of metropolitan areas, states, and regions. The regional science program shares the same core requirements as the Urban Studies Ph.D. Beyond these,

students in regional science design a program of study around two field areas.

The only required course in the second field is USP 691 Current Research in Regional Science. Subject to prior faculty group approval, students may organize second field areas around a topic other than the four identified above. It is recommended that the second field include additional methods courses that support the field's topical focus. For example, in the transportation field area the supporting methods courses might include coverage of demand modeling, cost-benefit analysis, GIS, and spatial analysis.

Students in the regional science program must pass a comprehensive examination in their two field areas. This is a single examination, developed in consultation with two members of the regional science faculty group.

PROGRAM RULES

Advanced standing in Urban Studies and Planning graduate program

A total of 72 credits in nondissertation graduate training is required of all Ph.D. students. Ph.D. students are also required to take a minimum of 27 dissertation credits. For students with a master's degree in a related discipline, a maximum of 24 advanced standing credits may be requested. All such requests must be accompanied by a listing of previous graduate work for which advanced standing is sought.

The Master of Urban Studies program requires a minimum of 52 credits in graduate courses, of which at least 36 must be taken at Portland State University. A maximum of 17 credits of advanced standing credit may be requested. The Master of Urban and Regional Planning program requires a minimum of 72 credits in graduate courses of which at least 48 must be taken at Portland State University. A maximum of 24 credits of advanced standing credit may be requested.

A M.U.R.P. student may request advanced standing for the 1-credit USP 559 Planning Practice Workshop. If advanced standing credit is approved, the student is considered to have fulfilled the internship requirement. Such advanced standing credit will be included in the 24-credit maximum for all advanced standing; only professional work completed within seven years of the date the degree is granted can be included.

Requirements with regard to both the pattern of coursework and total credits must be satisfied prior to either advancement to candidacy in the Ph.D. program or graduation in the M.U.S. and M.U.R.P. programs. A student is not obligated to enroll in a required course if that student has already acquired knowledge of the subject matter through earlier graduate coursework. In such cases, the student may request exemption from the course. Permission is granted only after obtaining written

verification from the instructor that the student has met the requirements of the required course. All such requests should be made within one year after entrance to the program.

Limitation on graduate/undergraduate courses

Students in the M.U.R.P., M.U.S., and Ph.D. programs are strongly advised to use no more than 12 credits of courses offered simultaneously at the 400- and 500-level in support of their degree programs. Courses must be an integral part of the student's program and courses with the same content must not be available on a purely graduate basis.

Limitation on by-arrangement courses

Admitted Ph.D. and master's students may utilize no more than 12 credits of by-arrangement classes (501/601 and 505/605). In cases where more than 12 credits are needed because of the lack of regularly scheduled classes, a waiver must be submitted for approval by the school Curriculum Committee and by the school director.

Continuous enrollment

All students admitted to the M.U.R.P., M.U.S., and Ph.D. programs in urban studies must be continuously enrolled until graduation, except for periods in which they are absent by approved leave. Taking 1 credit per term during the regular academic year will constitute continuous enrollment. Failure to register without an approved leave may result in termination of student admission.

Grade requirement

A student who receives 9 credits of grades below B- in all coursework attempted after admission to an urban studies graduate degree program will be dropped from that program. A student attempting both a master's and a Ph.D. degree in urban studies may receive no more than 9 credits below B- in both programs. MURP students must receive grades of at least B- in all core courses.

Graduate Certificates

Graduate certificates in applied social demography, energy policy and management, real estate development, transportation, and urban design are offered by the Toulon School of Urban Studies and Planning. Admission to these programs require an undergraduate degree at an accredited university and a GPA that meets university graduate admission requirements. Additional information on these programs can be found at:

<http://www.pdx.edu/usp/applied-demography-certificate>,

<http://www.pdx.edu/energy-certificate>,

<http://www.pdx.edu/usp/graduate-certificate-urban-design>,

<http://www.pdx.edu/usp/GCRED>, and

<https://www.pdx.edu/usp/graduate-certificate-in-transportation>.

GERONTOLOGY GRADUATE CERTIFICATE

The Graduate Certificate in Gerontology provides multidisciplinary specialized training for postbaccalaureate and graduate students interested in acquiring or upgrading skills appropriate to working with or on behalf of elders in a variety of settings. Students need not be enrolled in a degree program to receive the Graduate Certificate in Gerontology.

The certificate program consists of a six-course format (18 credits minimum) made up of a three-course multidisciplinary core, two elective courses, and an internship or independent research project. The coursework will provide students with a general multidisciplinary overview of the field of aging, while the internship or independent project will allow a student to acquire experiential learning in a community-based aging services organization.

COURSE REQUIREMENTS FOR THE GRADUATE CERTIFICATE PROGRAM:

Internship Requirements

In addition, students are expected to undertake either an internship in an aging-services program or an independent research project; this typically takes place during the last term of certificate work.

Age 501	Research	1-6
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Electives

Two electives are required for ALL students from the following, or other aging-specific courses, as available.

A good rule of thumb in determining if a course is aging-specific, is if *aging*, *elderly*, *lifecourse* or *older adult* are in the title.

Age 516	Families and Aging	4
Age 523	Business and Aging	4
Age 557	National Long-term Care Policy	3
Age 556	Health Aspects of Aging	4
Age 559	Economics of Aging	3
Age 560	Mental Health and Aging	3
PHE 561	Cultural Variations in Aging	3
Age 562	Global Aging	3
Age 563	Service Learning in Nicaragua: Enhancing Communities for an Aging Society	3
SW 544	Mid-Life and Beyond	3
SW 569	Social Work in End-of-Life and Palliative Care	3
SW 574	Social Work with Frail Older Adults	3

USP 564	Political and Administrative Issues in Aging	3
USP 585	Housing and Environments for the Elderly	3

Note: Age 556 is an elective option for MSW students only.

There may be other approved classes – they will be listed on the web each quarter at www.pdx.edu/iaa/class-schedule

Students may select only one 510 course per certificate program. 510 courses may be used only as electives.

Three required classes

Age 556	Health Aspects of Aging	4
Age 558	Perspectives on Aging	3
Psy 562	Psychology of Adult Development and Aging	4
	or	
Soc 569	Sociology of Aging	4

For MSW students the three (3) required courses are:

Age 558 - Perspectives on Aging

SW 544 - Mid-life and Beyond

SW 574 - Social Work with Frail Older Adults

RESEARCH CENTERS AND INSTITUTES

Center for Urban Studies

320 Urban Center
503-725-8203

Community Environmental Services
128 Market Center Building
503-725-8469

The Center for Urban Studies, established in 1966, is a multidisciplinary research unit that promotes and facilitates research and community service for faculty and students on urban and metropolitan issues. CUS research on urban and regional systems and policy includes issues such as planning and growth management, sustainability, energy, transportation, economic development, and housing and equity. Center for Urban Studies faculty are frequently engaged with policy-making institutions at the metropolitan, regional, and national levels, and CUS provides an infrastructure for the community to access the expertise and resources of the university. Faculty scholarship is presented at public forums and in academic journals and conferences. Private, public, and nonprofit organizations, as well as the community, can access expertise and services through CUS.

The center houses the Community Environmental Services (CES) Program, the PSU-China Innovations in Urban Studies Program, Planning Oregon, and co-houses the Urban Sustainability Accelerator (USA).

Community Environmental Services (CES) (www.pdx.edu/ces/) provides public and private sector institutions research, technical assistance, and educational outreach in the areas of solid waste minimization, recycling, and community sustainability program evaluation.

The PSU-China Innovations in Urbanization Program (www.pdx.edu/innovations-in-urbanization) promotes dialogue and exchanges among professionals, students, and scholars in the U.S. and China.

The Urban Sustainability Accelerator (USA) (www.pdx.edu/sustainability-accelerator) is a joint project with PSU's Institute for Sustainable Solutions that supports U.S. cities to implement sustainable development projects through technical assistance and university expertise.

Planning Oregon provides planners and community leaders with information, insight, and inspiration needed for creating local solutions and statewide innovations, through the provision of timely research, training, convening, and reflection.

All programs serve to provide students with the opportunity to develop leadership, practical job skills, and civic responsibility through education, service, and research which addresses urban issues and resource sustainability.

Center for Real Estate

631 SW Harrison, Room 270
503-725-5175

<http://www.pdx.edu/realestate>

In 2004, the Center for Real Estate was formed as a partnership between PSU's acclaimed Schools of Urban Studies and Planning and Business Administration to manage the real estate programs at Portland State and serve as the vital link between the University and the real estate community. Consisting of an Executive Director, an Academic Director, and a Program Manager, the Center staff work with employers to not only meet their internship and employment needs, but also provide them with valuable updates on the real estate industry through the Center's annual real estate conference.

The Center's PSU Real Estate Quarterly publication showcases articles on innovation in the real estate industry and trends affecting the real estate market, regional planning and the regional economy.

The Center supports four real estate degree programs at Portland State University: a Master of Real Estate Development, a Graduate Certificate in Real Estate Development, and an Undergraduate Minor in Real Estate

Development. Faculty from both the Nohad A. Toulan School of Urban Studies and Planning and the School of Business Administration teach the courses within each program.

Center address: School of Business Administration, 631 SW Harrison Street, Room 270.

RESEARCH CENTERS AND INSTITUTES

Institute on Aging

470 Urban Center
503-725-3952
www.pdx.edu/iaa

The Institute on Aging (IOA), in the College of Urban and Public Affairs, is a multidisciplinary research and educational organization. Established in 1969, the IOA was one of the first centers in the United States to focus on the social, psychological, and economic issues related to aging. Our research is funded by federal, state, and private sources, with projects designed to advance knowledge that serves an aging society. Educational programs are offered at the undergraduate, postbaccalaureate, master's, and doctoral levels. The IOA is actively engaged in community partnerships.

Our Mission

Institute on Aging faculty, staff, and students are dedicated to enhancing understanding of aging and facilitating opportunities for elders, families, and communities to thrive.

Research

Institute on Aging faculty specialize in research on a variety of topics, including:

- best practices in housing and long-term care;
- global aging in developing countries;
- planning for age-friendly communities;
- aging services and organizational decision making;
- work-life issues and family caregiving;
- social relationships in late life;
- research methods.

Degree and Training Programs

The Institute on Aging offers courses and areas of specialization in gerontology for undergraduate, postbaccalaureate, master's, and doctoral students, as well as research and teaching opportunities. Each of the educational programs offered provides a multi-disciplinary core curriculum in gerontology and is designed for

students seeking instruction in aging services, research, and/or policy. The IOA is a member of the Association for Gerontology in Higher Education and the Oregon Gerontological Association.

Graduate Programs.

Doctorate in Urban Studies with a concentration in gerontology.

Doctorate in Public Affairs and Policy with a concentration in gerontology.

The Graduate Certificate in Gerontology, which is a postbaccalaureate program for those seeking additional education in aging studies; it is offered as a stand-alone program or as an area of emphasis in conjunction with other graduate degrees.

Undergraduate Programs.

Concentration in Aging Services within the Health Studies major.

Minor in Aging Services.

Training for Professionals

The Institute on Aging is a partner in the Oregon Geriatric Education Consortium (OGEC), a collaboration among the Oregon Health & Science University, Portland State University, and Oregon State University, dedicated to providing training in gerontology and geriatrics to health professionals. The OGEC Resource Center, housed within the IOA, provides reference and training materials for geriatric health care, long-term care, and higher education professionals in gerontology and geriatrics across Oregon.

Lifelong Learning

The Senior Adult Learning Center (SALC) provides opportunities for continuous intellectual enrichment and personal growth of older adults. Oregon residents aged 65 and older can register through the SALC to audit Portland State University courses on any topic with no tuition costs on a space-available basis.

The Retired Associates of Portland State University is an affiliated membership organization open to anyone aged 50 or older and sponsored by the Institute on Aging. It provides fellowship for those interested in lifelong learning and leadership opportunities.

Community Service and Partnerships

Through partnerships with a wide variety of organizations that serve older adults locally, regionally, nationally, and internationally, faculty and students at the Institute on Aging seek to build capacity for organizations and communities to address the needs and strengths of older people living near and far. Programs are aimed at enhancing the lives of older persons who lack adequate resources in the United States and in less developed

regions of the world, including Nicaragua. The goal is to test service learning, housing, and community development models for identifying and addressing some of the needs of and opportunities for elders in the United States and abroad. Other service initiatives focus on creating age-friendly communities and enhancing the quality of long-term care.

Institute of Portland Metropolitan Studies

780 Urban Center
503-725-5170
www.pdx.edu/ims/

The Institute of Portland Metropolitan Studies (IMS) is a neutral source of information and analysis about the issues facing the metropolitan region. A service and resource center in the College of Urban and Public Affairs at Portland State University, the Institute's mission is to advance the economic, environmental, and social goals of the Portland metropolitan region by gathering and disseminating credible information, convening regional partners, and stimulating dialogue and action about critical regional issues. IMS also serves as a portal to other resources of higher education for the region's communities.

The IMS sponsors research, holds forums and seminars, and gathers and disseminates data about the outcomes most important to the leaders and citizens of the Portland metropolitan area. By engaging students in its work, IMS offers opportunities to learn about regional issues and contribute to creative approaches to our most important challenges.

The IMS has an external governing board that ensures that its activities are aligned with the priorities of the leaders and residents of the region. Drawn from throughout the metropolitan region and from among private, public, and nonprofit sectors, the IMS fosters regional collaboration and dialogue among the region's key community leaders. It is a resource for all departments at PSU and collaborates with higher education institutions across the state.

Population Research Center

780 Urban Center
503-725-3922
www.pdx.edu/prc

Through demographic research and teaching, the Population Research Center (PRC) serves the people of Oregon by addressing the causes and implications of demographic change for communities across the state.

One of the earliest research centers within the College of Urban and Public Affairs (CUPA), the center prepares official population estimates for Oregon cities and counties through the Population Estimates Program. The center also operates as the Oregon State Data Center (SDC)—where the center disseminates social, demographic, and economic data to state, regional, local, and tribal governments, and to

non-governmental data users. Both programs, along with responsibilities of the Federal-State Cooperative Program for Population Estimates (FSCPE), are carried out through a long-standing partnership with the U.S. Census Bureau. The center houses historical census data, along with data from the American Community Survey and other U.S. Census Bureau products and makes these data available to faculty, students, and the general public.

Typical research activities within the center include: enrollment forecasts for school districts, demographic needs-based studies, social and economic factors affecting population change, population geography, and demographic methods. Population-based research involves close-working relationships with not-for-profit groups, non-governmental organizations, service districts, municipalities, and city, county, and various governmental agencies across Oregon.

The center's current staff includes personnel with formal training in demography, sociology, geography, economics, urban and regional planning, community health, and statistics. This variety of expertise enables the center to provide a multidisciplinary and interdisciplinary laboratory of learning for students pursuing population research.

Center faculty and staff provide demographic expertise for questions relating to data availability and techniques and also teach courses in applied demography.

Northwest Economic Research Center

780 Urban Center
503-725-8167
www.pdx.edu/nerc

NERC aims to: Contribute to analysis of policies with economic implications for the region; advance the state of knowledge in applied economic research related to Oregon and the Portland Metropolitan Area; provide high-quality, unbiased research and analysis by drawing on the wealth of knowledge and expertise available at PSU; facilitate dialogue among academic, business and government institutions on issues related to economics.

The Center produces research and provides advice that is understandable to policymakers and stake holders. NERC brings together researchers from other centers and institutes on campus to serve as a hub for economic issues. In this process, the Center provides practical outlets and experience for researchers, and trains graduate students interested in pursuing careers in applied economics.

NERC offers superior value to its clients by combining the latest in analytic techniques from the academic world with practical, immediately-implementable recommendations that can be understood by policymakers of all types.

DIRECTORIES

Portland State University Board of Trustees

The Portland State University Board of Trustees is a 15-member volunteer board appointed by the Governor of Oregon. The Board is responsible for the governance of the University as provided in state laws that establish the University. The Board meets at least four times a year. Most of the work of the Board is done through the Board's committees, which meet regularly throughout the year. The members of the Board elect their Chair and Vice Chair, are responsible for the employment and evaluation of the University President, establish the mission and strategic plan of the University, establish tuition and fee rates, approve the University budget and the incursion of debt, and perform other tasks as necessary. All actions of the Board are for the benefit of the University, its current and future students, faculty and staff, the Portland metropolitan area, and the State of Oregon.

The President of the University is an ex officio, non-voting member of the Board. In addition, the Board must include one faculty member, one staff member, and one student from the University. The faculty, staff and student members of the Board are appointed for two-year terms; all other trustees are appointed for four-year terms. Trustees are limited to two full consecutive terms. All trustees, except for the President, are appointed by the Governor of Oregon, subject to confirmation by the Oregon Senate. A list of the current trustees' terms of office is here.

Current Members of the PSU Board of Trustees

Portland State University

Faculty members are listed with their programs. The dates in parentheses indicate the beginning of academic service at Portland State University. The earliest date shown is 1955, the year in which Portland State became a degree-granting institution. The faculty listings were compiled in June 2016 and may not include changes and appointments made after that time.

Office of the President

Rahmat Shoureshi (2018) Ph.D.
President. Ph.D. 1981 Massachusetts Institute of Technology.

Lois Davis (2009) B.S.
Chief of Staff, Special Assistant to the President. B.S. 1977 University of Oregon.

Office of Athletics

Valerie Cleary (2014) M.S.
Athletic Director. M.S. 2003 California State University, Long Beach.

Academic Affairs Office of the Provost

Susan Jeffords (2018) Ph.D.
Provost and Vice President for Academic Affairs; Professor of English and Women Gender and Sexuality Studies. Ph.D. 1981 University of Pennsylvania.

Shelly Chabon (2008) Ph.D.
Vice Provost for Academic Personnel & Dean of of Interdisciplinary General Education; Professor of Speech and Hearing Sciences. Ph.D. 1980 University of Pittsburgh.

International Affairs

Ron L. Witczak (1995) B.A.
Executive Director, International Affairs. B.A. 1991 Oregon State University.

Jeff Baffaro (2001) B.A.
Director, International Special Programs. B.A. 1978 Portland State University.

Lindsay J. Benstead (2017) Ph.D.
Director, Middle East Studies Center. Ph.D. 2008 University of Michigan.

David Brandt (2011) B.A.
International Scholar & Faculty Adviser. B.A. 1985 Whitman College.

Jonna Lynn Bransford (2015) M.Ed.
International Student Advisor, International Student & Scholar Services. M.Ed. 2011 Portland State University.

Paul Braun (2014) M.A.
Program Manager, International Special Programs. M.A. 2004 Portland State University.

Debra Z. Clemans (1997) M.A.
Financial Officer; Director of Fulbright & Boren Programs. M.A. 1995 Portland State University.

Skye Clifford, (2017) M.A.
Education Abroad Coordinator, Education Abroad. M.A. 2006 University of Freiburg.

Alyse Collins (2004) M.A.
Senior Advisor, Education Abroad. M.A. 2007 Portland State University.

Joshua N. Davis (2008) B.A.
Assistant Director, International Student & Scholar
Services. B.A. 2002 Pacific University.

Rachel Dietz (2014) M.S.Ed.
International Student Life Advisor. M.S. Ed. 2011
University of Wisconsin.

David M. Duke, II (2017) M.A.
Outreach Coordinator, Middle East Studies Center. M.A.
2016 Portland State University.

Hannah Fischer (2016) M.P.A.
Faculty-Led Program Coordinator, Education Abroad.
M.P.A. 2016 Portland State University.

Joyce Hamilla (2014) M.A.
Director, International Partnerships. M.A. 2003 National
University of Singapore.

Jennifer Hamlow (2012) M.A.
Director, Education Abroad. M.A. 2002 De Paul
University.

Paula Harris (1997) M.Ed.
International Student Advisor. M.Ed. 1997 Oregon State
University.

Yoko Honda (2013) M.A.
International Student Life Advisor. M.A. 2012 Portland
State University.

Christine Igarta (2000) M.A.
International Student Advisor. M.A. 2002 Portland State
University.

Krista Kennedy (2014) M.S.
Sponsored Student Program Administrator. M.S. 2010
University of Portland.

Rachel Landers (2004) B.A.
Education Abroad Advisor. B.A. 2007 Portland State
University.

Masumi Lint (2011) M.A.
Program Manager, International Special Programs. M.A.
2006 University of Idaho.

Christina Luther (1998) M.A.
Director, International Student & Scholar Services. M.A.
1993 Portland State University.

Sally Mudiamu (2001) M.A.
Director, PSU/Waseda Transnational Programs; Associate
Director, International Partnerships. M.A. 1991 London
School of Economics & Political Science, University of
London.

Jill Townley (1997) M.S.
Associate Director of International Student Life. M.S.
2001 Portland State University.

Jian Wang (1999) M.S.
Director, Confucius Institute. M.S. 1996 Wayne State
University.

Suwako Watanabe (1990) Ph.D.
Director, Institute for Asian Studies. Ph.D. Georgetown
University.

Anri Zama (2014) B.A.
Program Manager, PSU/Waseda Transnational Programs.
B.A. 2007 Aoyama Gakuin University.

Glen Zimmerman (2001) M.A.
Senior Instructor, PSU/Waseda Transnational Programs.
M.A. 1996 University of Washington.

Library

Tom Bielavitz (2006) M.L.I.S.
Interim Dean; Assistant University Librarian for
Administrative Services, Planning, and Digital Initiatives,
Associate Professor. M.L.I.S. 2006 Drexel University.

Linda Ueki Absher (2003) M.L.I.S.
Humanities Librarian, Professor. M.L.I.S. 1993 University
of California, Berkeley.

Sarah Beasley (1997) M.A.I.S., M.L.I.S.
Humanities & Social Sciences Librarian, Associate
Professor. M.A.I.S. 1996 Oregon State University;
M.L.I.S. 1989 University of Michigan.

Michael S. Bowman (1992) M.Libr.
Engineering Librarian, Professor. M.Libr. University of
Washington.

Jill Emery (2011) M.L.I.S.
Collection Development Librarian, Associate Professor.
M.L.I.S. 1995 University of Texas at Austin.

Emily Ford (2012) M.L.S., M.I.S.
Urban & Public Affairs Librarian, Associate Professor.
M.L.S. 2007 Indiana University-Bloomington; M.I.S. 2007
Indiana University-Bloomington.

Arthur W. Hendricks (1996) M.S.
Social Sciences Librarian, Professor. M.S. 1995 University
of Illinois, Urbana-Champaign.

Thomas W. Larsen (2003) Ph.D., M.L.S.
Head of Monographic Cataloging, Professor. Ph.D. 1988
University of California, Berkeley; M.L.S. 1997 Emporia
State University.

Elsa Loftis (2018) M.L.I.S.
Humanities and Acquisitions Librarian, Assistant
Professor. M.L.I.S. 2009 The Pratt Institute.

Richard M. Mikulski (2018) Ph.D., M.L.S.
Government Documents and Social Sciences Librarian,
Assistant Professor. Ph.D. 2014 University at Buffalo,
State University of New York; M.L.S. 2009 University
at Buffalo, State University of New York.

Cristine N. Paschild (2007) M.A., M.S.I.
University Archivist and Head of Special Collections,
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Office of Vice President for Research and Strategic Partnerships

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University of Oregon.

Joseph Janda (2011) M.B.A.
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Communications Manager, Research & Strategic
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Margaret Rea (2002) M.A.
Senior Fiscal Officer for Research. M.A. 2002 San
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Assistant Director, Research Integrity. E.M.P.A. 2017
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Director of Sponsored Projects Operations. B.A. 2003
University of Colorado at Boulder.

Graduate Studies

Rossitza Wooster (2002) Ph.D.
Dean of Graduate Studies; Professor of Economics. Ph.D.
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Data Systems Manager. B.S. 2012 Portland State
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Director of Graduate Admissions. M.P.A. 2010 Portland
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Director of Graduate Academic Services. M.S. 2012
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Graduate DARS Coordinator. B.A. 2005 Portland State University.

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Institute for Sustainable Solutions

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Program Assistant. B.A. 1997 The Evergreen State College.

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Office of Portland State University Foundation

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President, Chief Executive Officer and Vice President for University Advancement. M.A. 1974 Smith College.

Alumni Association

Tom Bull, M.S.C. (2011) M.A.
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Development

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Danielle Cox (2007) B.S.
Director of Development. B.S. 2003 Oregon State University.

Elizabeth Frawley (2011) B.A.
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Jaymee Jacoby (2012) M.P.A.
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Leslie Katharine Reed (2014) M.B.A.
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Finance

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Operations and Advancement Services

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IT Director. B.A. 1981 Washington State University.

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Board Liaison. M.A. 1990 Clark University.

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Director of Research and Relationship Management. M.L.I.S. 2007 University of California, Los Angeles.

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David Stepp (2014) M.A.I.S.
Assistant Vice President of Advancement Services. M.A.I.S. 1994 Oregon State University.

Office of University Communications

Christopher Broderick (2010) M.S.L.
Associate Vice President for Communications. M.S.L. 1998 Yale Law School.

Kristin Boden (2008) B.S.
Director of Web Communications. B.S. 1987 Santa Clara University.

Brett Forman (2008) B.F.A.
Creative Director. B.F.A. 2001 University of Oregon.

Julie Smith (2000) B.S.
Director of Marketing. B.S. 1993 Oregon State University.

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Director of Media and Public Relations. M.B.A. 2010 Nova Southeastern University.

Academic Faculty

College of the Arts

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School of Architecture **Faculty**

L. Rudolph Barton (1988) M.Arch.
Emeritus Professor of Architecture. M.Arch. 1981 Harvard University.

Travis Bell (2012) M.Arch.
Assistant Professor of Architecture. M.Arch. 2006 University of Washington.

Todd Ferry (2013) M.Arch.
Senior Research Associate. M.Arch. 2013 University of Texas at Austin.

Anna Goodman (2016) Ph.D.
Assistant Professor of Architecture. Ph.D. 2015 University of California, Berkeley.

Corey Griffin (2009) M.Arch.
Associate Professor of Architecture. M.Arch. 2005 University of California, Berkeley.

Juan Heredia (2010) Ph.D.
Associate Professor of Architecture. Ph.D. 2008 University of Pennsylvania.

Clive Knights (1995) M.Phil.
Director, School of Architecture, Professor of Architecture. M.Phil. 1988 University of Cambridge.

Margarette Leite (2008) M.Arch.
Associate Professor of Architecture, M.Arch. 1990 University of Pennsylvania.

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Professor of Architecture, M.S.Arch. 2006 Massachusetts Institute of Technology.

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Associate Professor of Architecture, M.Arch. 1990 University of Pennsylvania.

Barbara A. Sestak (1982) M.Arch.
Professor of Architecture. M.Arch. 1977 University of Washington.

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School of Art + Design

Faculty

Kate Bingaman-Burt (2008) M.F.A.
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Professor of Art. M.F.A. 2000 Portland State University.

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Professor of Art. M.F.A. 1985 California Institute of the
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Instructor, James DePreist Visiting Professor of Art.
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Emeriti Faculty

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Professor Emeritus of Art. M.F.A. 1961 University of
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Charles Colbert (2000) Ph.D.
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Harvard University.

Mary A. Constans (1968) M.S.
Professor Emerita of Art. M.S. 1965 University of Oregon.

Walton B. Fosque (1984) M.A.
Professor Emeritus of Art. M.A. 1973 California State
University, Long Beach.

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Professor Emerita of Art. M.A. 1948 Institute of Design,
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James L. Hansen (1964) Cert-Fine Arts
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Museum Art School.

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Professor Emerita of Art. M.F.A. 1975 University of
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James S. Hibbard (1967) M.A.
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Melvin Katz (1966) Cert-Fine Arts
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Michihiro Kosuge (1978) M.F.A.
Professor Emeritus of Art. M.F.A. 1970 San Francisco Art Institute.

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Daniel Pirofsky (1998) B.A.
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Rita J. Robillard (1999) M.F.A.
Professor Emerita of Art. M.F.A. 1981 University of California, Berkeley.

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Professor Emerita of Art. M.Ed. 1964 University of Florida.

School of Music & Theater Faculty

Devon Allen (2005) M.F.A.
Professor of Theater Arts (acting). M.F.A. 1992 University of California, San Diego.

Sherry Alves (2017) M.M.
Instructor of Music (jazz voice). M.M. 2009 Western Oregon University.

Ronald D. Babcock (1988) D.M.A.
Associate Director, Music; Professor of Music (music education). D.M.A. 1993 University of North Texas.

Harry Baechtel (2015) D.M.A.
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David Bamonte (2007) M.M.
Associate Professor of Music (trumpet). M.M. 1986 New England Conservatory of Music.

Joel Bluestone (1989) D.M.A.
Professor of Music (percussion). D.M.A. 1987 State University of New York, Stony Brook.

Sydney Carlson (2008) D.M.A.
Professor of Music (flute). D.M.A. 1996 University of Houston.

Susan Chan (2004) D.M.A.

Professor of Music (piano). D.M.A. 1994 Indiana University.

Hamilton Cheifetz (1977)
Professor of Music (cello).

George Colligan (2011) M.A.
Associate Professor of Music (jazz). M.A. 2007 Queens College.

Tomas Cotik (2016) D.M.A.
Assistant Professor of Music (violin). D.M.A. 2013 University of Miami.

Charles Dillard (2016) D.M.A.
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Debbie Glaze (2003) M.M.
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Bradley H. Hansen (2002) D.A.
Professor of Music (theory). D.A. 1985 University of Northern Colorado.

Barbara Heilmair (2007) D.M.A.
Associate Professor of Music (clarinet, music history). D.M.A. 2004 University of California Los Angeles.

Edward Higgins (2005) D.M.A.
Associate Professor of Music (online classes). D.M.A. 2000 University of Missouri-Kansas City.

Bruce A. Keller (1988) M.A.
Professor of Theater Arts (set design). M.A. 1987 Case Western Reserve University.

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Associate Director, Theater; Professor of Theater Arts (playwriting). M.F.A. 1980 University of California, Los Angeles.

Jesse McCann (2015) M.M.
Instructor of Music (guitar). M.M. 2007 Portland State University.

Christine Meadows (2006) M.M.
Professor of Music (voice, opera). M.M. 1985 Indiana State University.

Bonnie Miksch (2004) D.M.A.
Director, School of Music & Theater; Professor of Music (composition). D.M.A. 1998 University of Cincinnati.

Jon Newton (2002) M.A.T.
Senior Instructor of Music (technology). M.A.T. 2003 Pacific University.

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Assistant Professor of Music (musicology). D.M.A. 2012 Boston University.

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Professor of Music (choirs). D.M.A. 2000 University of Southern California.

Karen L. Strand (1989) M.M.
Associate Professor of Music (oboe). M.M. 1982 Eastman School of Music.

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Emeriti Faculty

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Professor Emeritus of Theater Arts. M.A. 1970 Indiana University.

Glenn G. Gauer (1977) M.F.A.
Professor Emeritus of Theater Arts. M.F.A. 1973 Carnegie-Mellon University.

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Mary H. Kogen (1979) M.M.
Professor Emerita of Music. M.M. 1968 Northwestern University.

Stephen H. Martin (1991) Ph.D.
Professor Emeritus of Music. Ph.D. 1980 University of Washington.

Judy Patton (1978) M.A.
Professor Emerita of Dance. M.A. 1996 Reed College.

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Dean Emerita, College of the Arts; Professor Emerita of Music. Ph.D. 1979 University of Oregon.

Marilyn W. Shotola (1981) D.M.A.
Professor Emerita of Music (flute). D.M.A. 1989 University of North Texas.

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Professor Emeritus of Music. M.M. 1968 University of Arizona.

William P. Stalnaker, Jr. (1968) Ph.D.
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Thomas S. Stanford (1981) D.M.A.
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Tomas Svoboda (1970) M.M.
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William Tate (1968). M.A.
Professor Emeritus of Theater Arts. M.A. 1967 University of Birmingham (U.K.).

Gerald Webster (1994) M.M.
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School of Film **Faculty**

Mark Berrettini (2007) Ph.D.
Director, School of Film; Professor of Film. Ph.D. 2000 University of Rochester.

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Eliza (Amy) Greenstadt (2001) Ph.D.
Professor of Film. Ph.D. 2000 University of California, Berkeley.

Courtney Hermann (2015) M.F.A.
Assistant Professor of Film. M.F.A. 2000 Columbia College Chicago.

Kristin Hole (2014) Ph.D.
Assistant Professor of Film. Ph.D. 2014 Stony Brook University, The State University of New York.

Jungmin Kwon (2016) Ph.D.
Assistant Professor of Film. Ph.D. 2014 University of Illinois at Urbana-Champaign.

Dustin Morrow (2011) M.F.A.

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Jennifer Ruth (1999) Ph.D.
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The School of Business

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Dean, The School of Business. Ph.D. 2010 Gonzaga University.

Accounting **Faculty**

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Retzlaff Director in Accounting, Professor of Business Administration. Ph.D. 1996 Arizona State University.

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William Kenny (1985) J.D.
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Donna R. Philbrick (1984) Ph.D., C.P.A.
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Richard Sapp (1978) Ph.D., C.P.A.
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Finance **Faculty**

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Gerard C.S. Mildner (1991) Ph.D.
Associate Professor of Business Administration. Ph.D. 1991 New York University.

Shafiqur Rahman (1986) Ph.D.
Professor of Business Administration. Ph.D. 1986
University of Illinois.

Daniel A. Rogers (2001) Ph.D.
Associate Professor of Business Administration. Ph.D. 1998
University of Utah.

Jing Zhao (2016) Ph.D.
Assistant Professor of Business Administration. Ph.D. 2007
Pennsylvania State University
Emeriti Faculty

Beverly Fuller (1987) Ph.D.
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Ph.D. 1987 Virginia Polytechnic Institute and State
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Chi-Cheng Hsia (1987) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1974
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James H. Hugon (1962) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1964
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Ph.D. 1978 University of Washington.

Management Faculty

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Administration. Ph.D. 1994 Purdue University.

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Assistant Professor of Business Administration. Ph.D. 1997
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Professor of Business Administration. Ph.D. 2002
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Desiree Pacheco (2009) Ph.D.
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Emeriti Faculty

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Roger L. Moseley (1967) Ph.D.
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