

2015

Bulletin: General Catalog Issue 2015-2016

Portland State University

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**PORTLAND STATE UNIVERSITY 2015-2016 BULLETIN
VOLUME 1- PROGRAMS**



Information in this *Bulletin* is accurate as of June, 2015. 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, sexual or gender identity, sexual orientation, veteran status, or any other basis in law. This policy implements state and federal laws (including Title IX); inquires about it should be directed to the Office of Diversity and Inclusion, 1600 SW Fourth Avenue, Suite 830, 503-725-4417; TTY: 503-725-6503.

P.O. Box 751
Portland, OR 97207-0751
503-725-3511
Toll free: 1-800-547-8887

www.pdx.edu

ACADEMIC CALENDAR

| | FALL 2015 | WINTER 2016 | SPRING 2016 | SUMMER 2016 | FALL 2016 |
|---|-----------------------|--------------|-------------|-------------|-----------------------|
| ¹ Advance registration begins | May 11 | Nov. 9, 2015 | Feb. 15 | May 2 | May 9 |
| Classes begin | Sept. 28 | Jan. 4 | March 28 | June 20 | Sept. 26 |
| Last day to enroll in classes, add a class, or make section changes | Oct. 9 | Jan. 15 | April 8 | varies | Oct. 7 |
| Last day to drop without course recorded as W | Oct. 11 | Jan. 17 | April 10 | varies | Oct. 9 |
| Last day of refund period | Oct. 25 | Jan. 31 | April 24 | varies | Oct. 23 |
| Last day to make changes in grading option | Nov. 15 | Feb. 21 | May 15 | varies | Nov. 13 |
| Last day to withdraw from a class | Nov. 15 | Feb. 21 | May 15 | varies | Nov. 13 |
| Final examinations | Dec. 7-12 | March 14-19 | June 6-11 | | Dec. 5-10 |
| Term ends | Dec. 12 | March 19 | June 11 | | Dec. 10 |
| Commencement | | | June 12 | | |
| Holidays | Nov. 11 Nov. 26-27 | Jan. 18 | May 30 | July 4 | Nov. 11 Nov. 24-25 |

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

WELCOME TO PORTLAND STATE UNIVERSITY

Vision, Mission, Values and Priorities

Our vision is to be an internationally recognized urban university known for excellence in student learning, innovative research, and community engagement that contributes to the economic vitality, environmental sustainability, and quality of life in the Portland region and beyond.

The mission of Portland State University is to enhance the intellectual, social, cultural, and economic qualities of urban life by providing access throughout the life span to a quality liberal education for undergraduates and an appropriate array of professional and graduate programs especially relevant to metropolitan areas. The University conducts research and community service that support a high quality educational environment and reflect issues important to the region. It actively promotes the development of a network of educational institutions to serve the community.

Portland State values learning and discovery, access to learning, a climate of mutual respect, openness and reflection, and community and civic engagement.

Engagement among faculty, students and the community contributes to learning and scholarship that is globally relevant and regionally focused. Sustainability is an important programmatic focus.

The following themes guide our efforts and direct our resources:

- Provide Civic Leadership through Partnerships
- Improve Student Success
- Achieve Global Excellence
- Enhance Educational Opportunity
- Expand Resources and Improve Effectiveness

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, acts as a "living laboratory" that successfully prepares tomorrow's forward thinking leaders with the experience needed to succeed. Portland State's reputation for innovation prompted U.S. News & World Report to name PSU as a top "up and coming" national university in its Best Colleges 2015 guidebook.

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 most perplexing 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.

Research and Strategic Partnerships

Research at Portland State University harnesses the strengths of community

engagement to establish PSU as a leading urban research university. Through strong alliances with industry, government agencies, and other universities, we serve as a catalyst for innovation and prosperity for the region. PSU has made significant contributions in research areas ranging from signal processing in biomedical applications to life in extreme environments. Our faculty include internationally recognized researchers in engineering and physical, social, and natural sciences.

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 bring 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.

Green: It's more than our school color

At Portland State University, students have the opportunity to do more than study sustainability, they engage directly with the community to make sustainability real. Portland State strives to harness the strengths of the university—with new ideas, innovative partnerships, and academic rigor—moving closer toward solving the environmental, social, and economic problems of our time.

Green school spirit can also be seen on the campus itself. Each new building or major renovation on campus over the past eight years, has received at least a Leadership in Energy and Environmental Design (LEED) Silver certification. The new buildings include such sustainable design features as ecoroofs, rainwater harvesting, and geothermal heating and cooling systems.

Working with like-minded sustainable businesses, individuals, and organizations, faculty and students are performing valuable research on alternative energy sources such

as solar panels; aggressive waste reduction and recycling programs; sustainable building practices; and much more. Many of the University's 213 bachelors, masters, and doctoral degrees encourage students to 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 sustainable world, one idea at a time.

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. West 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, in 2009, its 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 Portland State's new Initiative for Bicycle and Pedestrian Innovation, along with research and design integrating safer bike paths in urban cities, Portland State continues to meet the educational and sustainable needs of the Portland metropolitan region.

With urban sophistication, small town accessibility, and the many outdoor activities, Portland and Portland State offer a great living and learning experience.

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 present.
- ¹From *Creating Portland State: 1946-1955*.

Accreditation

Portland State University is accredited by the Northwest Commission on Colleges and Universities.

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
(425) 558-4224
www.nwccu.org

Various schools and departments within the University also are accredited by special agencies. The undergraduate and graduate programs and the accounting program of the School of Business Administration are accredited by The Association to Advance Collegiate Schools of Business International. 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. The counseling program is accredited by the Council for Accreditation of Counseling and Related Educational Programs.

The School of Social Work program is accredited by the Council on Social Work Education. 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 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.

In the College of Liberal Arts and 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.

In the College of Urban and Public Affairs, the Master of Urban and Regional Planning degree is accredited by the Planning Accreditation Board; the Master of Public Administration degree is accredited by the National Association of Schools of Public Affairs and Administration; and the Master of Public Health degree is accredited by the Council on Education for Public Health.

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 College of the Arts the School of Music is accredited by the National Association of Schools of Music. Theater programs in the School of Theater & Film are accredited by the National Association of Schools of Theater. The Master of Architecture degree in the School of Architecture is a National Architectural Accrediting Board candidate program.

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 may apply online, or obtain the application form at www.pdx.edu/admissions/apply. The application may also be obtained from the PSU Office of Admissions and at the counseling offices in most Oregon high schools and community colleges. 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 college transfer 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 scores of College Board SAT or ACT®.** 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® that include a standardized writing examination. Similarly, transfer applicants with fewer than 30 earned quarter credits must also submit standardized test scores. Portland State requires the writing portion of either ACT or SAT I as part of its admission process. 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 pdx.edu/testing. Note: High school graduates before 1975 are not required to provide the ACT® or SAT.
5. **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 the Test of General Education Development (GED) with a minimum overall score of 580 and a minimum score of 410 on each of the five sub-tests (if taken before January 2001, an average score of 46 and a minimum score of 40 on each subject test is required). 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 1540 or higher on the combined critical reading, writing and math portions of the SAT or 22 on the ACT® and an average of 470 or above (940 total) on two College Board SAT Subject Tests (Math Level I or II, 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.** 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:
 - 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. Students may demonstrate proficiency by meeting one of the following 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

*Pass an approved proficiency exam

**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.

The second language requirement only applies to applicants graduating from high school in 1997 or later.

For a complete list of proficiency options available for meeting the second language requirements, please contact the University’s Office of Admissions, or view the OUS Second Language policy at www.ous.edu.

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

Score an average of 470 or above (1410 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 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, as seen on this website: www.pdx.edu/admissions/minimum-admission-requirements-freshmen.
4. **Writing Component of SAT/ACT.** Students must take and submit scores for the writing component of the SAT and/or ACT. No minimum score is required.

Admission Requirements—Transfer Students

To be admitted as a transfer student, applicants must have a minimum GPA of 2.25 in 30 quarter credit hours of transferable college work. Applicants who present a transferable associate’s degree or an Oregon Transfer Module (OTM) will be admitted with a minimum cumulative 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 the equivalent with a C- or better.
2. **Second language proficiency requirement.** All students must meet the second language proficiency requirement described above in 2e.
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

Applicants who are not U.S. citizens or immigrants are considered for admission as international students. Candidates for admission are given priority if complete applications are filed by:

- April 1 for fall term
- October 1 for winter term
- February 1 for spring term
- April 1 for summer term

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

Graduate-level applicants should contact the appropriate academic department for specific departmental application information.

International applicants should submit the following information to the Office of International 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. 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** (as described below).
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 are not 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 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 International Admissions with a minimum 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 equivalent as determined by the Office of International Admissions. Transfer students who present a transferable associate's degree 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 in academic classes. Those who do not meet this requirement will be restricted to 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 <http://www.pdx.edu/admissions/english-language-proficiency-requirements-undergraduate>.

Information on the international TOEFL is available at www.ets.org/toefl. Information on the PSU institutional TOEFL is available at www.pdx.edu/admissions/portland-state-institutional-toefl-exams.

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 Department of Applied Linguistics, 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

503-725-5555
www.pdx.edu/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 is part of the orientation program that 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 email to orientation@pdx.edu or view the Web site at www.pdx.edu/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.

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.

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 here.

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 may be submitted before or after the deadline date and must include documentation of the reason for missing the deadline.

Petition forms may be obtained online here or from the Office of the Registrar in the Neuberger Hall lobby. For further information students may call 503-725-3511.

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 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 waive deadlines may be obtained online here or petition forms for reinstatement may be obtained online here. Both petition forms may also be picked up at the Registrar's Office in lobby of Neuberger Hall. For further information, call 503-725-3511.

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 under the term Priority Registration Schedule. 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 two weeks before the beginning of classes for winter and spring, and available in May for the following fall term.

The academic regulations which govern drops and withdrawals are described in detail under Grading System for undergraduates (p. 28). 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/academic-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 process the drop. Note: Students receiving state or federal aid who receive all X, M, NP, W, or F grades for a term will be required to provide the Financial Aid Office with proof of attendance. Students who do not submit proof of attendance within the specified period of time are subject to having all of their federal and state funds returned.

Academic Advising Requirements

Advising at Orientation

All new undergraduates, both freshmen and transfer students, are required to attend an orientation session to learn about Portland State University and its academic curriculum and to meet with academic advisers.

First-year Advising Requirement

All newly admitted undergraduates are required to receive academic advising from their intended major during their first year in order to register for the following year. For example, students admitted in fall term must receive advising from their intended major(s), during the academic year, based on the department's specific advising plan, in order to register in May for the following fall term.

Students who are exploring or changing majors (i.e. undecided or undeclared) are advised by Advising and Career Services. Students in pre-professional programs (e.g. education, medicine, nursing) may receive their advising from either their intended major or the College of Liberal Arts and Sciences Advising Center. Students should contact their major department, their college or school advising center, or Advising and Career Services to clarify their advising options.

Residency Classification

In Oregon, as in all other states, tuition at publicly supported four-year universities is higher for nonresident students than for resident students. 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 duly authorized residency officers 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

Any person may appeal an institutional residency classification decision within ten (10) days of the date of mailing or other notification of the decision. The appeal to the Interinstitutional Residency Committee (IRC) must be in writing and filed with the PSU residency officer.

The decision of the IRC may be appealed to the President of Portland State or his designee in writing within ten (10) days of notification of the IRC decision. The decision of the President is final.

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. The Online Class Schedule is available at www.sa.pdx.edu/soc.

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 and some degrees may be earned by taking courses exclusively at night. 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 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 formally 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 post baccalaureate level. These students are admitted to Portland State to earn a second bachelor's degree, certificate, complete prerequisites 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 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 registration receipt is used to apply for a library card and to authorize use of the Peter Stott Center facilities at staff/faculty rates.

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. 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 a veterans certification form to the Veterans Certification Office in NH 104. Course adds, drops, withdrawals, class cancellations and changes of program made after submitting a veterans certification form

must be reported as soon as possible to the Veterans Certification Office.

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, 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 end-of-term grades of X, F, NP are submitted.

Reporting Changes in Your Enrollment

Any changes to your class schedule (this includes 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 to you or to the University on your behalf. 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 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.

Decisions as to 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 Services Office, NH 104, 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, or otherwise considered a resident, 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.

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 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.

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/sites/www.pdx.edu/financial-services/files/BAO_rcap_web_policy.pdf

Students should consult the tuition and fee listing at pdx.edu/financial-services/tuition-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/financial-services/tuition-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 the Cashier Windows located in Neuberger Hall lobby. Specific deadlines are available at pdx.edu/financial-services/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/financial-services/payment-plans. 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 (previously self support) 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, Neuberger Hall Lobby, 503-725-3440 or by visiting pdx.edu/financial-services.

Terms and Conditions

Terms and Conditions can be viewed at http://www.pdx.edu/sites/www.pdx.edu/financial-services/files/BAO_rcap_web_policy.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 Neuberger Hall lobby. 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

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

The professional staff in the Office of Student Financial Aid and Scholarships is ready to help students determine the level of their financial need and to plan for the most efficient use of their financial resources for education.

Eligibility

To assist the student in financial planning and in determining eligibility for assistance, the following expenses are taken into consideration: tuition and fees, books and supplies, room and board, transportation, child care costs and personal/miscellaneous expenses. Specific allowable student expense budgets are shown at www.pdx.edu/finaid under Applying for Financial Aid. Note: All tuition and fee costs are subject to change by the Oregon State Board of Higher Education.

The Office of Student Financial Aid and Scholarships provides qualified students with financial aid in the form of loans, grants, and student employment. Underlying the awarding of financial aid at PSU is the nationally accepted philosophy that parents are the primary source responsible for helping dependent students to meet educational costs. The amount of the contribution expected from parents is related directly to a family's financial strength as reflected by adjusted gross income, number of dependents, allowable expenses, and assets. Both dependent and independent students also have a responsibility to make a reasonable contribution toward their costs from earnings and savings. Financial aid resources serve to supplement these primary resources. Aid eligibility is determined through a federally established formula.

Students should apply annually using the Free Application for Federal Student Aid (FAFSA). The FAFSA can be filed on-line at www.fafsa.ed.gov FAFSA on the Web Worksheets are available at high schools or at college financial aid offices.

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 Office of Student Financial Aid and Scholarships accept applications at any time during the year, with priority given to admitted applicants who submit their FAFSA in January and who provide all requested information promptly. It is recommended that students apply by January 15th each year. It is not necessary to wait for formal admission to the University before submitting the financial aid application.

In order to be eligible to receive state or federal financial aid, students must remain in good academic standing as defined in the University Scholastic Standards Policy. Students also must meet the Satisfactory Academic Progress Policy requirements described at the end of the Financial Aid section. The student must be in an aid-eligible degree or certificate program, and must be a U.S. citizen or be an eligible non-citizen.

Undergraduate students

Undergraduate students may receive consideration for financial assistance through the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (SEOG), TEACH grant, Federal Perkins loan, Federal Work-Study, and Federal Stafford Loan programs. Oregon resident students may also be eligible for the Oregon Opportunity Grant and the Oregon University System Supplemental Tuition Grant programs. Parents of students who apply as dependent students may borrow through the Federal PLUS Loan program, described in the Educational Loans section.

Post-baccalaureate students

Post-baccalaureate students may receive consideration for financial assistance through the Federal Stafford Loan programs. Parents of post-baccalaureate students who apply as dependent students may borrow through the Federal PLUS Loan program, described in the Educational Loans section. Graduate students. Graduate students may receive consideration for financial assistance through

the Federal Perkins Loan, Federal Work-Study, and Federal Stafford Loan and Federal Graduate PLUS Loan Programs.

International students

International students are not eligible to participate in federal financial aid programs.

Award notification

An Award Notification will advise applicants of the decision on their financial aid application. Award amounts will be displayed on the PSU student portal at www.banweb.pdx.edu. Students will review and accept or decline their aid offer online.

Delivery of aid

After the financial aid award is accepted and all requirements have been completed, available financial aid will be automatically credited to pay tuition and other PSU charges. Excess financial aid and other refunds are disbursed through Higher One (PSUOne). To ensure timely receipt of refunds, students should activate their PSUOne Card upon receipt of the card and select one of the three disbursement methods: a paper check delivered via U.S. mail, an electronic deposit to an existing bank account, or disbursement to the optional PSUOne Account, an FDIC insured bank account that allows students to use their PSUOne Card as a debit card.

Federal Work-Study is earned on a monthly basis and paychecks are issued at the end of each month. Students may authorize direct deposit of their Work-Study pay to their bank account, or pick up their paychecks from the cashier window in Neuberger Hall lobby. Website: www.pdx.edu/finaid/work-study.

Aid Disbursement Policy

Financial aid can be disbursed to a student's account as early as ten days prior to the start of a 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

2014-15 aid year and minimum enrollment requirements for the various sources of aid can be found on the Office of Student Financial Aid and Scholarships Web site at <http://www.pdx.edu/finaid/census>. At the census date of each term, student's enrollment is locked. Their financial aid for that term is then adjusted, based on the enrollment level at that time. When a reduction in aid is required due to a student's enrollment level on the census date, the reduction usually creates 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.

A student whose census date enrollment is less than half-time is not eligible for any federal student loans. In these cases, the entire loan amount for the term will be returned to the lender. The return of loan funds to the lender creates a bill on the student's PSU account, but also reduces the outstanding principal balance due on the 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/credits, 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, 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 the U.S. Department of Education. 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 who cease attending or performing academic activities prior to the end of the quarter are considered by the

federal government to have Unofficially Withdrawn. A student receiving all X, M, NP, W or F grades for a term often reflect an unofficial withdrawal. 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 of 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 and/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.

In either case, the student aid recipient must repay the entire amount of aid disbursed for that quarter or term. Website: www.pdx.edu/finaid/withdrawing/

Award sources

Additional details on the federal aid programs are available in The Funding Education Beyond High School Guide, published annually by the U.S. Department of Education. Students can also find the Financial Aid Guide at <http://www.pdx.edu/finaid/financial-aid-publications>. This guide gives a detailed explanation of the conditions for receiving aid, student rights and responsibilities, and other information of which aid applicants should be aware.

Educational grants

Federal Pell Grants

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 based upon financial need. Students have a lifetime limit

of the equivalent of 6 years of full time enrollment for Pell Grant eligibility.

Federal Supplemental Educational Opportunity Grant

This is a federally funded grant program under which eligible applicants are selected for awards by Portland State University. Eligibility is based upon exceptional financial need and awards are limited to undergraduate students only.

Oregon Opportunity Grants (Oregon residents)

All Oregon resident undergraduate students needing financial aid will be considered for the Oregon Opportunity Grant awarded by the Office of Student Access and Completion (formerly Oregon Student Assistance Commission). Awards are based upon financial need. Details about eligibility can be found at <http://www.oregonstudentaid.gov/>. Awards are renewable for 12 terms provided satisfactory academic progress and financial need continue.

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

This grant provides up to \$4,000 per year in grants for 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 \$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.

Notice: If a student fails to complete the four-year teaching obligation, they must repay the grant with interest.

Oregon University System Supplemental Tuition Grant

This is a state-funded program that provides tuition assistance to eligible Oregon resident undergraduates.

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 sets forth the eligibility and financial aid requirements for Portland State University men's and women's athletic teams. Any prospective PSU student should contact the coach of the desired sport about 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 (DL)

Portland State University participates in direct lending. Under this program, capital for student loans is provided by the federal government through colleges rather than by banks. When loans are due, borrowers repay them directly to the federal government through a loan servicer. Loans are available to students and parents of dependent students through the Direct Loan program. Undergraduate and post-baccalaureate students can borrow Federal Stafford loans; graduate students can borrow Federal Stafford loans and Graduate PLUS loans; and parents of dependent students can borrow a Parent PLUS loan. Graduate students and parents will apply for the Graduate PLUS or the Parent PLUS loan on our website, www.studentloans.gov. Students will apply for Federal Stafford loans online at www.fafsa.ed.gov.

Federal Direct Subsidized Stafford Loans

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 in school, and enrolled at least half-time. The student is responsible for interest on the loans once repayment begins. The federal government has set loan limits: \$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 maximums. Graduate students' are not eligible for Subsidized Stafford loans.

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 certificate. Once repayment begins, borrowers are charged a fixed interest rate. For current interest rates, visit the Department of Education's website at <https://studentaid.ed.gov/types/loans/interest-rates>.

Federal Direct Unsubsidized Stafford Loans

This program provides unsubsidized federal direct loans to students who do not qualify, in whole or in part, for the subsidized Federal Direct Stafford Loan. All Graduate level Stafford loans are Unsubsidized. 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 rate for the Federal Direct Unsubsidized Stafford Loan is fixed. For current interest rates, visit the Department of Education's website at <https://studentaid.ed.gov/types/loans/interest-rates>. The student must pay the interest that accrues while in school, during their six-month grace period, and any authorized deferment periods. The federal government has set loan limits: \$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. A student's dependency and financial need determines the amount of the loan offered. Graduate and doctoral students may borrow up to \$20,500 per year depending on their enrollment and financial need. Generally, the cumulative amount a student can borrow from all Federal Direct Stafford Loans is as follows: \$31,000 (only \$23,000 may be subsidized) as a dependent undergraduate; \$57,500 as an independent undergraduate (only \$23,000 of this amount may be subsidized); \$138,500 as a graduate or professional student (only \$65,500 of this may be subsidized).

Additional Federal Direct Unsubsidized Stafford Loan

Dependent undergraduate students whose parents are denied access to the Federal Direct Parent Loan for Undergraduate

Students program may be eligible for additional Federal Direct Unsubsidized Stafford Loan money. Students with fewer than 90 credits may borrow a maximum of \$4,000 a year in additional funds above the maximum Federal Direct Stafford Loan limits. Students who have earned 90 credits or more may borrow a maximum of an additional \$5,000 per year. Not all applicants will qualify for the maximums in additional funding. The Federal Direct Unsubsidized Stafford Loan may be used to replace expected family contribution, but total direct loan (subsidized and unsubsidized) borrowing cannot exceed the cost of education.

Federal Direct Parent PLUS Loans (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 education minus any estimated financial assistance the student receives during the periods of enrollment. The 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 an adverse credit history or who have obtained an endorser who does not have an adverse credit history. A direct loan program servicer, contracted by the federal government, performs the required credit check. The interest on the Federal Direct PLUS is fixed. For current interest rates, visit the Department of Education's website at <https://studentaid.ed.gov/types/loans/interest-rates>.

Parents interested in participating in the Federal Direct PLUS program can obtain application information from the Office of Student Financial Aid and Scholarships or apply online at www.studentloans.gov.

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

This program is offered to qualified students with or without financial need, but the student must have financial aid eligibility. Like the Direct Stafford loans for students, the U.S. Department of Education is the lender of the Graduate PLUS loan. Typically, repayment must begin within sixty days after the Graduate PLUS is disbursed. However, students that meet their requirements may

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

Federal Perkins Loans

This federally funded loan program is available to undergraduate and graduate students who demonstrate exceptional financial need and who are enrolled at least half-time. This is a long-term, low interest loan for which repayment commences nine months after the student is no longer enrolled on at least a half-time basis.

Alternative Loans

Privately funded loans are not based on need, and no federal formula is applied to determine eligibility. However, the amount borrowed cannot exceed the cost of education minus other financial aid. Interest rates and repayment terms vary, but are generally less favorable than those provided through the federal direct lending program. Private loans are used to supplement the federal programs when the cost of education minus federal aid still leaves unmet need. For information on alternative loan lenders, visit the PSU website at <http://www.pdx.edu/finaid/alternative-loans>.

Loan Repayment

Repayment of Federal Direct Stafford Loans (subsidized and unsubsidized) begins six months after enrollment drops below half-time or after graduation. Repayment of Federal PLUS loans begins within sixty days of the last disbursement. There are no penalties for making payments while in school or during grace. Student may make payments at any time directly to their loan servicer.

Entrance and Exit Counseling

First-time Federal Direct Stafford Loan (subsidized and unsubsidized) borrowers must complete Entrance counseling. This enables students to become educated on their rights and responsibilities of borrowing loans. Shortly before graduating from or terminating enrollment at the Portland State University, borrowers must receive exit loan

counseling. Both Entrance and Exit counseling is completed online at www.studentloans.gov.

Debt Management and Default Reduction

Portland State University is committed to helping students achieve 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. Website: www.pdx.edu/finaid/loans/

Federal Work-Study

The Federal Work-Study Program is a need-based program in which the federal government pays from 50 to 100 percent of student wages and the employer pays the remainder. Work-Study is available to undergraduate and graduate students. Employment opportunities are on-campus and off-campus. On-campus jobs are with nearly every academic and administrative department. Off-campus jobs are with government agencies and non-profit groups; many are community service jobs that involve directly serving the community, while providing good work experience. The America Reads program, which tutors young children in public schools, is one of these programs. The Career Center lists openings for on-campus and off-campus jobs at www.pdx.edu/careers/. For Federal Work Study information, please see the Student Employment Coordinator, in the Office of Student Financial Aid and Scholarships or the website at www.pdx.edu/finaid/work-study.

Scholarships

Portland State University has a number of scholarships and awards, which are administered by individual academic departments, the Scholarship Committee, or special committees developed for specific scholarships. Scholarships generally are awarded on the basis of academic achievement, promise, and financial need. Additional information is available on the Web at www.pdx.edu/scholarships/.

Satisfactory Academic Progress and Financial Aid

In accordance with the Higher Education Act of 1965, as amended by Congress, Portland

State University has established a satisfactory academic progress (SAP) policy for students. All students who wish to receive federal student aid funds must make satisfactory progress toward completion of their program of study. Portland State University monitors the following for all students:

- Completion rate-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
- Maximum time frame (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 degree or program being sought.

Graduate students must take courses applicable to their degree or certificate. At least 67% of all credits enrolled in during each academic year must be graduate level courses. In addition, financial aid recipients who withdraw from all classes or received all negative grades twice within the school year are placed in immediate Suspended eligibility status.

Students who do not meet all requirements of the Satisfactory Academic Progress policy will have their eligibility for financial aid suspended. Students whose eligibility is suspended may submit a written appeal.

The full policy is on-line at www.pdx.edu/finaid/ under Eligibility for Aid. Printed copies can be found at the Office of Student Financial Aid and Scholarships in Neuberger Hall lobby.

UNDERGRADUATE STUDIES

Sukhwant Jhaj
Vice Provost for Academic Innovation and Student Success
650 Market Center building
503-725-2277
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. **Error! Bookmark not defined.**) 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, and (5) requirements for a major. Students majoring in Liberal Studies or completing the Honors Program do not need to meet the 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 a concentration of courses in one of a variety of specialty fields and may be awarded upon graduation, or as a stand alone credential as a postbaccalaureate student.

A **minor** which is a concentration of courses in one of a variety of fields of study and may be awarded only with a baccalaureate degree.

For a list of available certificates and minors, see Program of Study (p. **Error! Bookmark not defined.**).

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

Intensive Program in English as a Second Language (ESL)

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 including the 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.

There are five levels, as well as a Pre-Entry Program for students with minimal English skills. New students must take the ESL placement exams given by the program the week prior to the new term. Students placed in the Pre-Entry Program must successfully pass that program before taking courses in Levels 1-5. Full-time students in the Pre-Entry Program register for 22 credits per term. Full-time students in Levels 1-5 register for 18 credits per term. For more information on the Intensive Program, see our IELP website:
<http://www.pdx.edu/esl/program-options>.

ADMISSION REQUIREMENTS

The student must submit a completed application form and other materials requested on the application to the Office of Admissions at Portland State University. If the student is accepted, the I-20 or other appropriate forms will be issued. Upon arrival the student 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 TOEFL score reports if available.

Students who are admitted to PSU but have not met PSU's language proficiency requirement can register as full time students in the IELP by contacting the IELP office and taking a placement test prior to their first term. PSU-admitted students can take one PSU course concurrently with Level 4 and 5 IELP classes if they meet eligibility requirements.

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 can 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 wavier 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.

University Studies

117 Cramer Hall
503-725-5890
www.pdx.edu/unst
askunst@pdx.edu

Please see University Studies (general education) baccalaureate requirements (p. 25).

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 includes the capacity and the propensity to engage in 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, 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 Office in 117 Cramer Hall or call 503-725-5890.

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.*

Assessment

Portland State University assesses undergraduate learning through a variety of activities using 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. The assessment process requires the on-going collection of

information from students at the classroom, department and institutional levels. For example, students may be asked to participate in or submit samples of standardized tests, placement tests, surveys, portfolios of student work, group or individual interviews, or classroom research. Results are used to improve teaching and learning, program structure, course content, and the overall student experience at Portland State University. 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 and Postbaccalaureate Undergraduate 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 he/she has participated in 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 readmitted 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 Associate's or Bachelor's degree 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. 32) 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. Students work with the CPL Coordinator to determine if the program is right for them.

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

| | | |
|--|---|--|
| <p>will be included and appear as institutional credit on the PSU official transcript. It will be identified as CPL credit.</p> | <p>11. Department permission is required in order to re-attempt CPL credit for the same course, after a non-passing prior attempt.</p> | <p>Maximum number of correspondence credits 60</p> |
| <p>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 show up on the PSU Degree Audit.</p> | <p>Degree Requirements - Undergraduate and Postbaccalaureate</p> | <p>Maximum number of credits graded P (Pass) that may apply to a degree 45</p> |
| <p>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.</p> | <p>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, and (5) requirements for a major.</p> | <p>(This does not include credits with Pass grades accepted in transfer from institutions that do not offer differentiated grades.)</p> |
| <p>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.</p> | <p>Students bear final responsibility for ensuring that the courses taken are applicable toward satisfying their degree requirements.</p> | <p>Maximum number of Credit for Prior Learning credits that may apply to a degree 45</p> |
| <p>7. Residency Requirement: CPL credit will not count toward the PSU residency requirement.</p> | <p>1. General University Requirements: GPA, Credits and Limitations</p> | <p>Maximum number of Physical Education activity credits that may apply to a degree 12</p> |
| <p>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.</p> | <p>Minimum number of credits, including lower-division plus upper-division (some programs require more than 180 credits) 180</p> | <p>Maximum number of Cooperative Education credits that may apply to a degree 12</p> |
| <p>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.</p> | <p>Minimum number of upper-division credits (300 and 400-level) 72</p> | <p>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.) 24</p> |
| <p>10. Credit earned by CPL may not be received in a course which:</p> | <p>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</p> | <p>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 program general education requirements are satisfied with specific Honors courses.)</p> |
| <p>a. Duplicates credit previously earned by a student, or</p> | <p>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.)</p> | <p>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</p> |
| <p>b. Is more elementary, as determined by departmental, college, or school regulations, than a course in which the student has already received credit.</p> | <p>Maximum number of credits transferred from regionally accredited two-year institutions 124</p> | |

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.** One year-long course which must be taken in sequence (UnSt 100-level) 15 credits
- **Sophomore Inquiry.** 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). 12 credits
- **Upper-Division Cluster** (Junior and Senior Years). 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. 12 credits

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.

- **Senior Capstone.** 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.

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 must complete two college-level composition courses or their approved equivalents. The requirement may be satisfied in one of the following ways:

- Freshmen students admitted to PSU having earned 0-29 transfer credits meet the requirement by completing the first two years of University Studies or University Honors College program;
- 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 University Honors College program. (The Wr 121 requirement may

also be satisfied by passing the Wr 121 Challenge exam, which exempts students from the course);

- 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 211, Wr 222, Wr 227, Wr 300, Wr 323, Wr 324, Wr 327, Wr 333, Wr 394, Wr 400, Wr 420 or a 4-credit Writing Intensive Course (WIC).
 - Complete any two courses from the above PSU list. (The Challenge exams for Wr 121 and Wr 323 may also be used to satisfy the requirement.)

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

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 351, BSt 352, BSt 353, BSt 421, BSt 424, BSt 425, BSt 426, BSt 427 only), Communication, Conflict Resolution, English, World Languages and Literatures, Music, Philosophy, Speech and Hearing Sciences, Theater Arts, Writing.
- The Science academic distribution area consists of undergraduate courses from the following areas: Biology, Chemistry, Environmental Science and Management, Geography (Geog 210, Geog 310, Geog 311, Geog 312, Geog 313, Geog 314, Geog 320, Geog 322, Geog 333, Geog 340, Geog 380, 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.

- The Social Science academic distribution area consists of undergraduate courses from the following areas: Anthropology, Black Studies (except BSt 221, BSt 351, BSt 352, BSt 353, BSt 421, BSt 424, BSt 425, BSt 426, BSt 427), Chicano/Latino Studies, Child and Family Studies, Criminology & Criminal Justice, Economics, Geography (except Geog 210, Geog 310, Geog 311, Geog 312, Geog 313, Geog 314, Geog 320, Geog 322, Geog 333, Geog 340, Geog 380, 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, Native American Studies, Political Science, Psychology, Social Science, Sociology, 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.

Double major

Students with two or more majors must satisfy the University Studies general education requirements for the first major only. When a double major includes a liberal studies major, the University Studies general education requirements are to be satisfied for the departmental major.

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.

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 2015-16 catalog requirements will expire at the end of summer term 2022.

Postbaccalaureate Studies

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:
 - a. if the first degree was not a B.A., students must complete 28 credits to include:
 - i. 12 credits in arts and letters distribution area with minimum of 4 in fine and performing arts
 - ii. 12 credits in science and/or social science distribution area with minimum of 4 in science
 - iii. 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 in art practices 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.

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.

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

A candidate for a postbaccalaureate certificate must complete the following:

- Hold a previously earned baccalaureate degree.
- If the first degree is from Portland State University, credits in residence needed to complete the certificate requirements.
- If the first degree is from another accredited college or university, 30 credits in residence at Portland State University, including that work needed to complete the certificate requirements.
- 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 completion of a certificate program.

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

A student may be assigned a mark of I by an instructor when all of the following four criteria apply:

- Quality of work in the course up to that point is C- level or above.
- Essential work remains to be done. “Essential” means that a grade for the course could not be assigned without dropping one or more grade points below the level achievable upon completion of the work.
- Reasons for assigning an I must be acceptable to the instructor. The student does not have the right to demand an I. The circumstances must be unforeseen or be beyond the control of the student. An instructor is entitled to insist on appropriate medical or other documentation.
- Consultation must have occurred and a formal agreement must be reached between instructor and student.

A written record of the remaining work and its completion date should be kept by both instructor and student. The instructor may specify the highest grade that may be earned. This should not exceed the level of achievement displayed during the normal course period.

The deadline for completion of an Incomplete can be no longer than one year. The instructor may set a shorter deadline which shall be binding. An agreement to a longer period must be by petition to the Scholastic Standards Committee.

For undergraduate courses, failure to make up the incomplete by the end of one calendar year will result in the mark of I automatically changing to a grade of F or NP, depending on the grading option chosen by the student at registration. The instructor, department chair, or dean may set earlier deadlines.

For graduating students, incomplete grades will be automatically changed to a grade of F

or NP prior to conferral of the degree. The faculty of record must file supplemental grade changes no later than 30 days after the degree is awarded. Grades of F or NP will remain on the academic record after the degree is awarded and cannot be removed.

In cases where a student’s inability to complete the work by the deadline is due to extraordinary circumstances such as catastrophic injury or illness, petition can be made to the Scholastic Standards Committee who will review the case to determine appropriate action.

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/academic-calendar. To avoid having to pay special 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/academic-calendar. Date of withdrawal is the date it is received by Registration.

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 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/registration/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-, 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) 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 technical credits

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

Oregon Transfer Module (OTM)

Consistent with statewide transfer policy, students may earn an OTM at Portland State. 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 is 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

Margaret Everett
Dean of Graduate Studies and Vice
Provost for International Affairs

184 XSB (1633 SW Park Avenue)
503-725-8410
www.pdx.edu/ogs
grad@pdx.edu

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

University requirements for graduate admission

All applicants for a graduate degree or certificate program must meet minimum University admission requirements, which include:

- A bachelor's degree from a regionally accredited institution
- Minimum GPA. For Regular 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 admission, applicants must

have a cumulative undergraduate GPA between 2.50 and 2.74.

- One official transcript from every college or university attended (except PSU), including junior colleges and community colleges
- \$65 application fee
- Recommendation for admission from the appropriate graduate program

International applicants must also submit:

- Official degree certificate/diploma
- Financial documentation demonstrating adequate financial support for at least the first year of study
- Evidence of English language proficiency
 - Completion of a bachelor's degree, master's degree, or doctoral degree in Australia, English-speaking Canada, Ireland, New Zealand, the U.K., or the U.S., or;
 - Minimum required official scores on the International Test of English as a Foreign Language (TOEFL), the PSU Institutional TOEFL, the International English Testing System (IELTS) exam, or the Pearson Test of English-Academic (PTE), or;
 - Test more than two years old if the score exceeded the minimum requirement and the applicant has maintained continuous residency in the United States since the exam date.

Minimum Test Score Requirements

- TOEFL
- Internet-based: minimum overall score of 80; minimum subscores of 18 is reading and writing
- Paper-based: 550
- Computer-based: 213
- IELTS: minimum overall score of 6.5; minimum subscores of 6.5 in reading and writing

- PTE-Academic: 60 overall

In cases when a student does not meet minimum University admission requirements, departments may choose to submit a Graduate Admission – Special Approval Request (GO-20 form) to the Office of Graduate Studies. This process may only be initiated by a 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.

Departmental requirements

A department may have additional admission requirements based on previous academic achievement, scores on Graduate Record Examinations or other tests, letters of recommendation, a portfolio, or an autobiographical statement. Information regarding departmental requirements can only be obtained directly from the specific department. 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 available.

Application materials

Effective September 2015, PSU will require applicants submit one application through the CollegeNET OneApp system to the university. This application will contain requirements from both the university and the individual department. Visit the OGS webpage for a link to this streamlined application after September 1, 2015.

Until September 1, 2015, PSU will require applicants send two complete (but different) application packets, one packet to the Admissions Office and the other directly to the department. Incomplete applications submitted either to the Admissions Office or

to the department may seriously delay completion of the graduate admission process.

The University's online application is available at <http://www.pdx.edu/admissions/graduate-applicant>. The University application consists of:

- Application form
- \$65 application fee
- One official (sealed) transcript from each post-secondary institution

International applicants must also submit:

- Official degree certificate/diploma
- TOEFL, IELTS, or PTE-Academic scores
- Financial documentation demonstrating adequate financial support for at least the first year of study

For applicants unable to apply online, paper applications are available at <http://www.pdx.edu/ogs/forms>

Applicants need to contact departments directly for their applications materials. Many departments have online applications. The required elements of a department application vary based on program needs and goals. Typical requirements include:

- Departmental application
- Transcripts, either official or unofficial as determined by the department
- Personal essay/statement of purpose
- Letters of recommendation
- Standardized test scores, e.g., GRE (not required by all programs)
- Additional requirements may include items such as writing samples or a portfolio

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. A student who has Regular status is eligible to be a graduate assistant.

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. A student who has University Conditional status is not eligible to be a graduate assistant.

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 can only be removed by the department with a request to the Office of Graduate Studies. Students who do not fulfill the requirements of their Department Conditional status can have their admission canceled by the department. A student who has Departmental Conditional status is eligible to be a graduate assistant.

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 converted to Regular status independent of each other, and usually not at the same time. A student who has both University Conditional status and Department Conditional status is not eligible to be a graduate assistant.

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. 36) 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—Satisfactory completion (B- or better)
 NP—No credit, unsatisfactory
 I—Incomplete
 IP—In progress
 W—Withdrawn
 X—No basis for grade
 M—Missing grade

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 and grade (F, NP, X, or M) 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 (I grades)

A student may be assigned an I grade by an instructor when all of the following four criteria apply:

1. Quality of work in the course up to that point is C level or above.
2. Essential work remains to be done. "Essential" means that a grade for the course could not be assigned without dropping one or more grade points below the level achievable upon completion of the work.
3. Reasons for assigning an I must be acceptable to the instructor. The student does not have the right to demand an I. The circumstances must be unforeseen or be beyond the control of the student. An instructor is entitled to insist on appropriate medical or other documentation. In no case is an Incomplete grade given to enable a student to do additional work to raise a deficient grade.
4. A written agreement, signed by both the student and the instructor, should include a statement of the remaining work to be done to remove the I grade, and the date, not to exceed one year from the end of the term of enrollment for the course, by which work must be completed in order to earn credit toward the degree. The instructor may specify the highest grade which may be awarded upon completion; the grade awarded should not exceed the level of achievement attained during the regular course period.

To remove an Incomplete, the instructor must submit a grade change to the Office of the Registrar within one year (e.g., by the end of fall 2015 for a course registered for fall 2014).

An Incomplete grade becomes part of the permanent transcript record after the one-year deadline expires, unless a waiver is approved by petition to the Graduate Council.

Withdrawals (W grades)

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

A student may withdraw 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 withdrawal.

A student who withdraws after the second week will have a W recorded on the transcript. A student may withdraw for any reason during the third or fourth week, but withdrawing between the fifth and seventh weeks requires instructor approval.

A student wishing to withdraw after the seventh week must petition the Deadline Appeals Board. A W is recorded if the petition is approved. Reasons for withdrawal beyond the seventh week must be beyond the student's control, and medical reasons must be documented. Instructor's comments are required on the petition.

Refunds are automatic and are calculated from the date of official course load reduction. The refund is 100 percent only if withdrawal 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 Summer Session website.

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.

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 2015-16 *Bulletin* can be used through summer 2022 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 additional work beyond the requirements for the 400-level section. With the exception of coursework reserved for graduate credit (p. 36), 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 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 seek approval of registration in excess of 16 credits via the Overload Approval form. A student registering for 17 to 19 credits must obtain the approval of the department chair or faculty adviser. A student registering for 20 credits or more must obtain the approval of the department chair and the Office of Graduate Studies. A graduate assistant registering for more than 16 credits must obtain approval from the department chair and the Office of Graduate Studies.

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 one graduate credit every term (excluding summer) through graduation.

A minimum of one 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 applied to 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 follow 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. For all graduate certificate and degree programs, pre-admission and 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. Pre-admission and transfer credits cannot be correspondence credit.

A master's student must earn a minimum of two-thirds of the credits applied to the degree after formal admission to the graduate degree program at PSU and must earn a minimum of two-thirds of the credits applied to 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; 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' degree program. 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, whichever is higher, 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. 36) 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 must include additional documentation to facilitate verification of eligibility; contact the Office of Graduate Studies for details.

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. 37) 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 dual degree (p. 37) option.

- 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 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.

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 cumulative undergraduate GPA for admission to a bachelors+masters program cannot be less than 3.30 (including transfer credits); 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 a cumulative 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.

Dual master's degrees

A graduate student may work concurrently toward the completion of the requirements for two PSU master's degrees in complementary disciplines. Dual master's degrees allow for an overlap of the credits required for two master's degrees. The credits to be accepted for both degrees must be approved by the departments involved and may not exceed one-third of the required credits for a degree. If the two master's programs have different total credit requirements, the one-third limit is determined by the smaller total credit requirement.

Students working toward dual master's degrees must be admitted to the second degree program no later than the term prior to the term in which the student graduates from the first degree program. Overlapping credits used in dual master's degrees must be approved by the student's departments and the Office of Graduate Studies with a Dual Degree Form (GO-14) before the student graduates from the first master's degree program. Students are limited to one use of the dual master's degree allowance at PSU.

Leave of absence

A student admitted to a graduate program and in good academic standing may petition for leave of absence for up to one calendar year. Leave of absence status assures the student a continuation of the student's admission in the program during the period of the leave of absence. Application for leave of absence, endorsed by the department chair or program director, must be filed in the Office of Graduate Studies not 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. A leave of absence is granted only to graduate students in good academic standing and does not constitute a waiver of the time limit for completion of the graduate degree at PSU, nor does it extend the regular one-year limit for completion of a course.

A student may petition for a second leave of absence from a graduate program, but approval is required from the department chair or program director and graduate committee of the college or school as well as the Office of Graduate Studies. Students who have not enrolled for three terms (excluding

summer) must submit a re-enrollment request.

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 registration.

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 one 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. Specifically, 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 with Regular or Department Conditional status and be in good academic standing in a graduate degree program at PSU. (Students admitted only to a graduate certificate program are not eligible for a graduate assistantship.) Graduate assistants must be registered for and satisfactorily complete a minimum of 9 graduate academic credits applicable to the degree each term the assistantship is in effect, except Summer Session, with term and cumulative GPAs of 3.00 or higher, and must show satisfactory academic progress in fulfilling the requirements of the degree program. The student's department chair or graduate coordinator may allow up to 4 undergraduate credits within the 9 credits if the undergraduate credits are needed as prerequisites for graduate courses or are important to the student's plan of study. Any request for a student to take more than 4 undergraduate credits per term must be approved by the Office of Graduate Studies.

Graduate assistants are provided a salary on a regular periodic basis as compensation for the service provided and receive a partial remission of the instructional fee portion of tuition each term of appointment. 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 sources.

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 the following programs are assessed resident tuition: the master's and doctoral programs in environmental sciences and resources; the master's program in education: special education with a focus in visually impaired learners; master's and doctoral programs in urban studies; or the doctoral program in public affairs and policy. Applications for the WICHE program 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.

To be admitted to a graduate certificate program, students must meet all departmental and University admission requirements. For further information on admission, as well as other aspects of a specific graduate certificate program, the appropriate department should be contacted directly.

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.

To be admitted to a M.A. or M.S. degree, students must meet all departmental and University admission requirements. For further information on admission, as well as other aspects of a specific degree program, the appropriate department should be contacted directly.

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.

To be admitted to a M.A.T. or M.S.T. degree, students must meet all departmental and University admission requirements. For further information on admission, as well as other aspects of a specific degree program, the appropriate department should be contacted directly.

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.

To be admitted to a professional degree program, students must meet all departmental and University admission requirements. For further information on admission, as well as other aspects of a specific degree program, the appropriate department should be contacted directly.

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.

To be admitted to a Ph.D. program, students must meet all departmental and University admission requirements. For further information on admission, as well as other aspects of a specific degree program, the appropriate department should be contacted directly.

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.

To be admitted to the Ed.D. program, students must meet all departmental and University admission requirements. For further information on admission, as well as other aspects of a specific degree program, the Graduate School of Education should be contacted directly.

Degree and certificate requirements

Graduate certificates

Graduate certificate students must remain in good academic standing (p. 38) and must

achieve a cumulative GPA of 3.00 or higher in all courses to be used for the graduate certificate.

There are limits on the use of omnibus courses in graduate certificates (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, only one omnibus course, for a maximum of 4 credits, is allowed per student, per program, and an omnibus course can only be used as a substitute for an elective, not a core course.

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.

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 2008 will be beyond the seven-year limitation at the close of fall term 2015).

For graduate certificates only, transfer credit is defined as any eligible letter-graded (B- or higher) graduate course taken at another accredited institution. Two-thirds of the credits required for a graduate certificate, or 15 credits, whichever is higher, must be taken at PSU. Individual programs may set higher minimums. See the section on Course overlap between degrees and certificates (p. 36) 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 file an Application for Awarding of Master's Degree, Doctoral Degree, or Graduate Certificate with the Office of Graduate Studies by the first Friday of the anticipated term of graduation; see the Graduate Candidate Deadlines for specific due dates. A \$30 charge will be applied to the student's PSU account after the application is processed by the Office of Graduate Studies.

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 PSU Department of World Languages and Literatures. Certification of having passed a second language examination from an institution other than Portland State University must be approved by the Department Chair of World Languages and Literatures at Portland State University prior to acceptance as fulfillment of the University's master's degree second language competency requirement.

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 via a DARS exception submitted to the Office of Graduate Studies. For detailed information about Regular, University Conditional, and Departmental Conditional statuses, see Admission statuses (p. 33).

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. 36) and Reservation of coursework for graduate credit (p. 36) 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. 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. The grades of P/NP are used by only a limited number of departments which have received special authorization and may be counted as credit toward a graduate degree in resident credit only. 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 2008 will be beyond the seven-year limitation at the close of fall term 2015).

Degree application

Students must file an Application for Awarding of Master's Degree, Doctoral Degree, or Graduate Certificate with the Office of Graduate Studies by the first Friday of the anticipated term of graduation; see the Graduate Candidate Deadlines for specific due dates. A \$30 charge will be applied to the student's PSU account after the application is processed by the Office of Graduate Studies.

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 \$30 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 2005 may be validated for a graduation term no later than fall 2015). 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, established by the Office of the President of Portland State University, 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; that member would be selected by the adviser, the department chair, or the departmental graduate committee chair, according to department policy. 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. In case of failure of the final oral examination, the department has the option of disqualifying the student from the master's program or permitting the student to appear for re-examination after a period of at least three months. The result of the second examination is 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.

The student must pass all sections of the examination. If the student fails the entire examination or any section thereof, the department 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 result of the second examination is 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 adjunct or fixed-term 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.

All committee members (approved by the GO-16M form) or alternates approved in advance by the Office of Graduate Studies must be present for the thesis defense; one committee member (not the Chair) may participate via video or teleconference. The student must attend the thesis defense in person (i.e., not via video or teleconference). 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. In case of failure of the thesis defense, the department has the option of disqualifying the student from the master's program or permitting the student to appear for re-examination after a period of at least three months. The result of the second defense is 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 satisfactory 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 credits must be graduate credit taken at a regionally accredited institution and applicable to a graduate degree program without qualification at the originating institution. Pre-admission and transfer credits cannot be correspondence credit. 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 OGS. 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. 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. The grades of P/NP are used by only a limited number of departments which have received special authorization. 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.

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 via a DARS exception to the Office of Graduate Studies. See Admission statuses (p. 33) 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 adjunct or fixed-term faculty and/or one member 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 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.

All appointed committee members, or alternates approved in advance by the Office of Graduate Studies, must be present for the proposal defense; one regular committee member (not the Chair or Graduate Office Representative) may participate via video or teleconference. The student must attend the proposal defense in person (i.e., not via video or teleconference). The proposal defense must be a formal meeting of the entire approved dissertation committee at which 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. The student should allow a minimum of six weeks for the approval process. 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, established by the Office of the President of Portland State University, 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. As a best practice, the Office of Research and Strategic Partnerships recommends that students keep their HSRRC approval renewed through the final defense stage. For questions about HSRRC approval, contact the HSRRC directly.

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 the five-year limitation will invalidate passing of the comprehensive examinations and remove the student from candidacy. Advancement to a second period of candidacy requires the passing of the regular, or a special, comprehensive examination. Approvals for a second period of candidacy are required from the doctoral program and the Dean of

Graduate Studies; the maximum time limit (which will be less than five years) will be determined by the doctoral program and the Dean of Graduate Studies.

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 file an Application for Awarding of Master's Degree, Doctoral Degree, or Graduate Certificate with the Office of Graduate Studies by the first Friday of the anticipated term of graduation; see the Graduate Candidate Deadlines for specific due dates. A \$30 charge will be applied to the student's PSU account after the application is processed by the Office of Graduate Studies.

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 \$30 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.

All committee members or alternates approved in advance by the Dean of Graduate Studies must be present for the dissertation defense; one regular committee member (not the Chair or Graduate Office Representative) may participate via video or teleconference. The student must attend the proposal defense in person (i.e., not via video or teleconference). For dissertation approval, there may be no more than one dissenting vote on the dissertation defense. If the dissertation defense is not satisfactory, the doctoral program may recommend that the Dean of Graduate Studies permit the candidate to have 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 (within this time frame, doctoral programs may have stricter requirements). Candidates must be continuously enrolled during that period. Failure to meet the five-year limitation will invalidate passing of the comprehensive examinations and remove the student from candidacy. Advancement to a second period of candidacy requires the passing of the regular, or a special, comprehensive examination. Approvals for a second period of candidacy are required from the doctoral program and the Dean of Graduate Studies; the maximum time limit (which will be less than five years) will be determined by the

doctoral program and the Dean of Graduate Studies.

A TO Z LIST OF STUDENT SERVICES

Advising and Career Services

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

Advising and Career Services provides career services to all PSU students and alumni and academic advising to undergraduates who are exploring or changing majors. Services include assistance with choice of majors and/or careers; workshops on career choice and job search strategies; internship information; CareerConnect, a jobs & internship database; career fairs and employer information sessions through the year; resume & cover letter critiques; and referrals to other campus resources.

African American Student Services

African American Student Services
Smith Memorial Student Union
1825 SW Broadway
Suite 425
Portland, OR 97201
503-725-9938

www.pdx.edu/dmss

African American Student Services provides academic support services, advocacy and campus navigation. The office, part of Diversity and Multicultural Student Services, provides connection to African American community services and resources for incoming freshman, transfer and continuing students. African American Student Services also provides a supportive and welcoming environment for African American students as they transition to the PSU academic environment or continue their education at PSU. African American Student Services assists students who are seeking a cultural connection at Portland State University through community building activities and connecting participants to PSU student groups and faculty, as these are essential components to achieving academic success.

Box Office

Box Office
Smith Memorial Student Union
Broadway lobby

503-725-3307
www.pdx.edu/boxoffice

Tickets are for sale to PSU cultural events and activities, as well as to intercollegiate athletic home events. The PSU box office has a new on line ticket website. It is a quick, simple way for our community to select and print at home tickets for PSU events.

The Box office website is also an excellent source for information on events that are free for PSU Students. For information on how to access the Box Office to sell tickets to your events, check our website at www.boxoffice.pdx.edu or call 503-725-3307

Campus Public Safety Office

Campus Public Safety Office
503-725-4407 (business)
503-725-4404 (emergency)
148 Shattuck Hall
www.pdx.edu/cps

The Campus Public Safety Office consists of four components: Public Safety, Dispatch, Clery, and Lenel & Access, who 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 Public Safety Officers provide a continuous presence on campus and have Law Enforcement authority to arrest individuals involved in illegal acts on-campus. Campus Public Safety Officers patrol by vehicle, bicycle and on foot to provide assistance to those in need. If minor offenses involving University rules and regulations are committed by a University student, the Campus Public Safety Office may also refer the individual to the disciplinary division of Student Affairs. A trained and experienced Campus Public Safety Detective is available to assist in complex investigations including sexual assault investigations.

Campus Dispatchers provide 24/7 access for persons needing emergency and after-hours assistance including escort requests,

suspicious activity, emergency medical, or crime reporting. The Campus Public Safety Dispatch center provides the university with a central communications hub to access a myriad of resources both internally and externally including being the after-hours contact point for the CARE Team.

The intent of the Clery report is to inform the community of the extent of reported crimes occurring in the previous calendar year. Data is collected from a variety of sources, including Portland Police Bureau and various University departments such as the Campus Public Safety Office, Dean of Students Life, Office of Residence Life, Athletics Department, Human Resources Center, Student Activities Leadership Program, Global Diversity and Inclusion, and the Women's Resource Center.

Public Safety's Lenel & Access unit is responsible for providing building access and codes.

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. 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. Aquatics and Safety offers lap swimming, open swimming, swim clinics for adults, youth swim lessons and youth swim hours, and special events, as well as CPR/AED, first aid, and swim and lifeguard instructor certification courses.

Fitness and Health Promotion

503-725-2959

www.pdx.edu/recreation/fitness-and-health-promotion

Get fit and stay healthy with over 60 complimentary drop-in Group X fitness classes, an affordable personal training program, over 100 pieces of weightlifting equipment, more than 80 pieces of cardio equipment, an indoor track and health promotion events.

Inclusive Rec

503-725-2927

www.pdx.edu/recreation/inclusive-rec

Campus Rec celebrates diversity and authenticity, and Inclusive Rec demonstrates our commitment to creating a community that welcomes everyone. We offer 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 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. We also manage the 32-foot climbing wall located inside the Rec Center and offer climbing trips, climbing classes, and climbing 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.

Counseling Services

Counseling Services

University Center Building

1800 SW 6th Avenue

Medical and Counseling (Suite 200): 503-725-2800

www.pdx.edu/shac

Counseling Services offers a variety of services designed to support the emotional wellbeing 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: brief individual and group therapy, psychiatric assessment and treatment, crisis counseling, crisis/walk-in services, career assessment and counseling, psycho-educational workshops and trainings, and consultation. They offer comprehensive learning disability and ADHD assessments, alcohol and other drug use assessments, education, and referral. For further information, visit www.pdx.edu/shac/counseling.

Commencement

commencement@pdx.edu

www.pdx.edu/commencement

Portland State University has a formal cap and gown ceremony at the end of Spring term in the Moda Center (formerly Rose Garden arena). As their names are read, each student crosses the stage to receive University-wide recognition and his or her diploma folder. Official diplomas are available later in the summer. The ceremony lasts approximately two and a half hours and is a ticketed event.

“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.

Diploma

Official and unofficial student transcripts display PSU degree information once the graduation certification process is complete (four to six weeks after final grades are posted). Note that this is prior to the diploma being prepared. All degree recipients are notified by mail of diploma availability. Students may pick up their diploma in the Degree Requirements Office or have it mailed. Diplomas are usually available at the end of the term following the graduation term.

Cultural Centers

Cultural Resource Centers

La Casa Latina (p. 51), **Multicultural Center** (p. 51), **Native American Student & Community Center** (p. 51)

Smith Memorial Student Union

1825 SW Broadway Suite 228

Portland, OR 97201

503--725--5342

cultures@pdx.edu

<http://www.pdx.edu/dmss/cultural-resource-centers>

The Cultural Resource Centers create a student-centered inclusive environment that enriches the university experience. We honor diversity, explore social justice issues, celebrate cultural traditions, and foster student identities, success and leadership. The Cultural Resource Centers Leadership Team is comprised of three student-centered entities that promote professional development, leadership advancement and cultural awareness. All students are welcome, not just those who identify as students of color. Programs include Open Forums, Multicultural Graduation, Honor Day, Roots Festival, Dr. Martin Luther King Jr. Tribute Week, and Open Houses. Our centers also function as venues for student-centered events and other programming facilitated by campus and outside community members.

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. 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.

Dental Services

Dental Services
University Center Building
1800 SW 6th Avenue
Dental (Suite 307): 503-725-2611
www.pdx.edu/shac

SHAC Dental Services' licensed professionals provide dental care with the student's comfort and health in mind.

Typical 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
- dental emergencies

Dental Services provides dental treatment at greatly reduced rates for PSU students. If Dental Services is unable to provide a student with care, students are referred to a community dental service or provider where they will be responsible for any fees incurred. If a student has private dental insurance, the clinic will assist them in completing insurance forms. However, the clinic is not responsible for the determination of the insurance company, nor will they be able to contact them on behalf of the student. For further information, visit www.pdx.edu/shac/dental.

Disability Resource Center

Disability Resource Center
116 Smith Memorial Student Union
503-725-4150

drc@pdx.edu
www.pdx.edu/drc

The mission of the Disability Resource Center is to make university life accessible to students with disabilities. The Disability Resource Center identifies, evaluates, and reduces or eliminates barriers to student access throughout the PSU community, both for individual students and for the student population as a whole. The Disability Resource Center focuses on building partnerships and infrastructure that incorporate the principles of universal design, sustainability, and social justice. The Disability Resource Center creates solutions by proactively collaborating with students, faculty, and staff to develop an accessible and inclusive environment.

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

The Office of Diversity and Multicultural Student Services (DMSS) builds and strengthens a sustainable, diverse educational and co-curricular environment where all students have access and support to achieve their educational goals. DMSS provides structured support services to student populations whose access, retention, academic success, and graduation are most challenged by historical and contemporary inequities; provides a student-centered inclusive environment that enriches the university experience; and engages families and the community.

This office provides general advising, advocacy, and counseling. Programs include the following TRiO programs: Student Support Services (p. 55), Upward Bound (p. 55), and Educational Talent Search (p. 54). Students are also served through the Diversity Scholarship Program, African American Student Services, Students with Disabilities Resource Center, General Pool Services, Latino Student Services, Asian and Pacific Islander Student Services, and Native American/Alaskan Native Student Services. Three student cultural centers - the Native

American Student and Community Center (p. 51), La Casa Latina (p. 51), and the Multicultural Center (p. 51) – provide welcoming gathering space for co-curricular programs and community-building.

Diversity Scholarship Program

Diversity Scholarship Program
Smith Memorial Student Union
1825 SW Broadway
Suite 425
Portland, OR 97201
503-725-4457
<http://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.

Enrollment Management and Student Affairs

Enrollment Management and Student Affairs
345 Cramer Hall
503-725-5249
EMSAAdmin@pdx.edu
www.pdx.edu/studentaffairs

Enrollment Management and Student Affairs is the central office where the Vice President for Enrollment Management and Student Affairs is located. This office manages the more than 35 unique student services offices that help students enroll, succeed, and progress towards degree.

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 Diversity Advocacy Office.

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 503-725-6503. 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.

Health Promotion

Health Promotion
University Center Building
1800 SW 6th Avenue
503-725-2800
www.pdx.edu/shac

Health Promotion provides health and wellness related programs and activities for PSU students. These include workshops, campus wide events, tobacco cessation, and consultation services for faculty, students, and staff. In addition Health Promotion has started a Peer Health Education Team, which is a group of students talking to students about healthy lifestyle choices. Health

Promotion also manages the Mind Spa, a place that students can reserve (through appointment) to learn skills to relax and reduce stress. The Mind Spa includes a massage chair, light therapy, and biofeedback. For further information, visit www.pdx.edu/shac/healthpromotion.

Health Services

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

Health Services is staffed by providers and nurses who are available for diagnosis, treatment, consultation, and referrals for illnesses and injuries. Women's health care is available including health exams, pap smears, family planning counseling, and contraception. Specialized men's health care and trans health care is also available. Other services include x-ray, immunizations, dispensary services, and exams and support for sexual assault survivors. Health Services also provides an after-hours nurse advice line for students. That number is published on the web site. For that and other information, visit us at www.pdx.edu/shac.

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 Hub

Information Hub
Smith Memorial Student Union
1825 SW Broadway
503-725-4402

Located in the lobby of Smith Memorial Student Union, the Information Desk provides both visitors and the campus community with answers to all kinds of questions. The "Info Hub" can provide class, building, and event schedules. They have access to contact information for all campus buildings, programs and professors, as well as campus maps. The Hub is the one-stop specialty center on virtually all phases of community life at Portland State University.

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, voice and data communication, multimedia, labs, classrooms, and audiovisual services. All faculty, staff, and students can receive support by calling, emailing, visiting the OIT website, or visiting the Help desk in SMSU 18.

Latino Student Services

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

Latino Student Services provides academic support services, advocacy and connections to campus and Latino community services and resources to new incoming freshman, transfer and continuing students. Latino Student Services provides a supportive and welcoming environment for Latino students as they transition to the PSU academic environment. Latino 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.

La Casa Latina Student Center

La Casa Latina

Smith Memorial Student Union

1825 SW Broadway

Suite 229

Portland, OR 97201

503-725-4457

<http://www.pdx.edu/dmss/la-casa-latina>

La Casa Latina is a hub on campus where Latin@ students come together to build and connect with community, develop leadership skills, empower their individual and collective identities, and services that support academic success. The mission of La Casa Latina is to attract Latin@ students to Portland State University, support their academic success, and provide cultural, social and academic services and programs that enhance the quality of Latin@ student life. The center hosts events such as the Day of the Dead and Cesar Chavez Week. All students are welcome at the center to meet new people and learn about Latin@ culture.

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; Roads to Success program for new freshmen; and academic coaching to help create measurable goals for academic success. All Learning Center programs except for Roads to Success 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 Center

Multicultural Center

Smith Memorial Student Union

1825 SW Broadway

Suite 228

Portland, OR 97201

503-725-5342

cultures@pdx.edu

<http://www.pdx.edu/dmss/multicultural-center>

The Multicultural Center (MCC) is a uniquely central place on campus that welcomes all students, faculty, staff, and community members to share in dialogue and activities that further understanding among people of different cultures. The Center offers programs and events that promote student leadership development, co-curricular opportunities that celebrate cultural diversity, and serves as an informal gathering place for students to build community with other students, the campus, and communities in the greater Portland area. On-going programs include: Reflect & Connect; open lounge; annual events (M.L.K., Jr. Commemorative Week in January, MCC Open House, Roots Festival in May, Multicultural Student Graduation in June). Student organizations, academic units, and community groups collaborate to offer a rich array of educational and cultural activities open to all throughout the year.

Native American Student and Community Center

Native American Student and Community Center

710 SW Jackson St.

(Corner of Broadway and Jackson)

503-725-9695

nascc@pdx.edu

www.pdx.edu/dmss/nascc

The mission of the NASCC is to provide a "cultural home" where Native American, Alaskan Native and Pacific Islander students connect to other students, faculty, staff and

community members in an inclusive and supportive environment. At the Center, students may build community, receive assistance in support of their academic goals, as well as explore and develop cultural identities and intercultural alliances. The Center currently houses 6 student groups, has a ten station computer lab, and quiet study space for students.

Native American Student Services

Native American Student Services

Smith Memorial Student Union

1825 SW Broadway

Suite 425

Portland, OR 97201

503-725-5348

<http://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 the sexuality and gender spectrum 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 sexuality and gender spectrum. 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 safe space with a library, computer lab, and lounge.

Registrar

104 Neuberger Hall

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.

Smith Memorial Student Union

Smith Memorial Student Union

1825 SW Broadway St.

503-725-2663

www.pdx.edu/conferences

www.pdx.edu/gameroom

www.pdx.edu/umarket

www.pdx.edu/boxoffice

The Smith Memorial Student Union (SMSU), located at 1825 SW Broadway, serves as the living room for the PSU campus. It is a gathering place for students, faculty, staff, and community to meet, attend events, socialize, eat, relax, and take advantage of recreational facilities.

The SMSU Ballroom and its other meeting rooms host a variety of activities, including conferences, lectures, meetings, dances, and concerts. All campus events (other than credit classes) are scheduled by Conference & Events in room 435 of the SMSU.

The SMSU is home to the Associated Students of PSU (ASPSU) as well as many

other student groups and student publications. It's also home to the Multicultural Center, La Casa Latina, the Dean of Student Life, Student Activities, and Leadership Programs as well as many other student services and advocacy centers.

The SMSU has amenities as diverse as the student run Littmann and White art galleries; the Viking GameRoom with a bowling alley, pool hall, and video game lounge; the University Market which sells snacks, sundries, and school supplies; and the PSU Spirit Store, which carries PSU spirit gear and memorabilia.

The SMSU Food Court provides diverse cuisines and dining experiences provided by Einstein's Bagels, Greens to Go, The Grille Works, and a Grab and Go among others, and also includes a Starbucks Coffee stand as well.

The University Box Office is located at the Broadway entrance to the SMSU. Tickets are for sale there to PSU cultural activities and events, as well as intercollegiate athletic home events. The PSU Box Office has a new on-line ticket website. It's a quick, simple, and convenient way for our community to select and print tickets for PSU events. The on-line ticket website can be accessed through the Box Office website, listed above.

The Box Office website is also an excellent source for information on events that are free for PSU students. Student groups can also use the University Box Office to provide ticketing services for their events. Information for all of these services is available on the Box Office website.

In addition to these amenities, the SMSU offers dining and lounge spaces, including the recently remodeled 4th Floor Quiet Study Lounge, the Parkway Commons, and the second floor Main Lounge, which offers a picturesque view of the Park Blocks.

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.

We do this by advising student organizations, supporting student government, supervising student-led services, advising student media, coordinating service-learning programs, organizing cross-campus leadership development programs, and facilitating the work of the Programming Board.

Portland State University Programming Board
Smith Memorial Student Union
Suite M113
1825 SW Broadway
Portland, Oregon 97201
(503) 725-5638
www.pdx.edu/student-leadership/portland-state-programming-board
pdxprogramming@gmail.com

Portland State Programming Board promotes community, pride and tradition through student-initiated cross-campus events. The Portland State Programming Board offer free events to the whole PSU student community such as concerts, Midnight Breakfasts, and Mid-Term Stress Relief. Leadership opportunities on the board open in Spring.

Student Government—ASPSU
Smith Memorial Student Union
Suite 117
1825 SW Broadway
Portland, Oregon 97201
(503) 725-8973
aspsu@pdx.edu
www.aspsu.pdx.edu

All students registered for at least one credit are eligible to vote in student government elections held each spring. The ASPSU advocates for students' interests, officially represents students before internal and external bodies, allocates the student fees, and is the vehicle through which students may participate in the governance of the University. Students may run for office, serving on the Student Senate or as president,

vice president, or as a member of the Student Fee Committee. Students may also volunteer to work on specific-issue task forces or be appointed to a University-wide committee to represent the student body.

Student Community Engagement Center
Smith Memorial Student Union
Suite M113C
1825 SW Broadway
Portland, Oregon 97201
(503) 725-8132
www.pdx.edu/student-community-engagement/
volunteer@pdx.edu

The Student Community Engagement Center is the student center for service leadership and volunteerism at Portland State University. We offer various co-curricular service learning and volunteer opportunities ranging from year-long service leadership teams to one day service events. If students are looking to volunteer, either to fulfill hours for a class, explore something they are passionate about, or just to meet people in a different setting, stop by the office or email at volunteer@pdx.edu.

Student Media
Smith Memorial Student Union
Sub-basement
1825 SW Broadway
Portland, Oregon 97201
(503) 725-5687
www.pdx.edu/student-media
asksalp@pdx.edu

The student media organizations at Portland State function as learning laboratories where students can learn, not only by doing, but also by reflecting on how their practices relate to their development as leaders and function within the context of their local and greater communities. Get involved with news publications, television, radio, or literary journals as a writer, photographer, editor, manager, designer, etc. Go to website to find out more about getting involved.

Student Operated Services
Smith Memorial Student Union
Suite 119
1825 SW Broadway
Portland, Oregon 97201
(503) 725-4452
www.pdx.edu/student-leadership
asksalp@pdx.edu

Student's run a number of businesses on campus including Green Roots Cafe in the basement of Smith, Littman and White Galleries on the second floor of Smith, 5th Avenue Cinema, the ASPSU Food Pantry, Graphic Design Center, and Portland State Professional Sound. Support your student-operated services by bringing them your business. Student employment opportunities available year-round.

Student Organizations
Smith Memorial Student Union
Suite 119
1825 SW Broadway
Portland, Oregon 97201
(503) 725-4452
www.pdx.edu/student-leadership
asksalp@pdx.edu

There are nearly 200 student organizations to join. If you don't find the one you are looking for, you can start your own with four other friends. There is something for everyone. Visit the website to browse student organizations and their events.

Student Ambassador Program

Student Ambassador Program
503-725-8240
www.pdx.edu/dos/student-ambassadors

Student Ambassadors serve as representatives of the University and the student body with visiting speakers, educators, and dignitaries, conducting campus tours, acting as liaisons between students, faculty, and administrators, performing volunteer community work, and serving as hosts and hostesses at official functions and VIP events. Ambassadors are selected on the basis of their academic excellence, strong written and communication skills, a commitment to problem solving, their ability to be a positive, productive team member, and demonstration of strong leadership skills within the University setting as well as in the community.

Student Health and Counseling

Center for Student Health and Counseling
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. All students taking five or more in-load credits are assessed the health fee which entitles them to access SHAC services (no matter what insurance they carry). If a student is not enrolled for Summer Session but planning to return in the fall, they may utilize SHAC services on a fee-for service-basis.

Student Financial Aid and Scholarships

Office of Student Financial Aid and Scholarships
Neuberger Hall Lobby
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 issues, debtor/creditor issues, expungement issues, employment issues, immigration issues, family law issues, landlord/tenant issues, small claims court issues, and traffic citations.

Testing Services

Testing Services
University Center Building
1800 SW 6th Avenue
Testing (Suite 340): 503-725-5301
www.pdx.edu/shac

SHAC Testing Services coordinates and administers national Tests, classroom make-up exams, accommodated testing, distance exams, and administers admissions, career, learning disability, and specialty tests. In addition, Testing Services contracts with outside companies to administer licensure exams. The service is available to PSU students and, in many instances, members of the larger community. There are fees for testing that vary depending on the test. For more information visit <http://www.pdx.edu/shac/testing>.

Transportation and Parking Services

1812 SW 6th Ave, in the Academic & Student Recreation Center
 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 to where you need to go on campus in the most efficient, affordable, and sustainable manner possible.

PSU has two 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 30% less than the standard TriMet rate. 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 Transportation also manages a growing number of indoor bike parking facilities which allow you to park your bike in a space that's safe and dry. You can also keep your bike running smoothly at the PSU Bike Hub, an on-campus bike shop at the ASRC, where students and staff can learn to

service their bikes, buy accessories and parts, drop off a bike for professional repair or rent a bike.

Need a car once in a while, but don't want the hassle of bringing your own? 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 Getaround, a peer-to-peer carsharing system, and Car2Go which offers one-way car trips in convenient smart cars all over the central city.

Parking on campus is limited. For those who need to drive to campus, a variety of parking permits are available by the term and by 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 my.pdx.edu approximately 4 weeks before the start of the term. Permits purchased online are sent by mail and you can print a temporary permit while you wait for it to arrive. Daily and hourly parking is also available in PSU parking structures, lots and on most streets throughout campus.

If you have any questions regarding your transportation options at PSU, please call the Transportation & Parking Services office at 503-725-3442 or visit www.pdx.edu/transportation. The Transportation & Parking Services office is located at 1812 SW 6th Ave, in the Academic & Student Recreation Center.

TRiO Educational Talent Search

Educational Talent Search
633 S.W. Montgomery
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 and Hillsboro School Districts. 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 from college 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
633 S.W. Montgomery
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. Upward Bound, funded by the U.S. Department of Education, 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 schools: Franklin, Grant, Jefferson, Roosevelt, Madison, and Benson.

University Welcome Center

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

www.pdx.edu/admissions/visit/campusvisits@pdx.edu

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

- Daily and group campus tours
- Admissions information sessions
- Large visit programs for prospective students
- Admissions drop-in counseling for prospective students
- Expanded 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) exists to provide 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 Veterans Resource Center provides comprehensive support for Student Veterans, Servicemembers and their families to meet their unique academic needs. The VRC also provides Faculty and Administrators with resources and information to support the Student Veteran Community. The VRC provides a student lounge for meeting other vets, eating lunch or relaxing between classes, as well as a quiet study space complete with computers. The VRC has information about many organizations that are specific to the needs of Veterans and Military Servicemembers, and can help students navigate during their transition into PSU.

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

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.

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.

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.

Health Insurance

All students taking five or more non-self-support credits (1 credit for International Students) are required to have major medical insurance and are assessed an insurance fee that enrolls them in the PSU Health Insurance Plan. A student may waive out of the PSU-sponsored insurance if they maintain other insurance coverage that meets certain requirements. More information about the PSU insurance waiver process, waiver deadline, or all SHAC programs, including printable insurance claim forms and measles forms, is available at www.pdx.edu/shac.

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.

OFFICE OF INTERNATIONAL AFFAIRS

Margaret Everett, Vice Provost
107 Extended Studies Building
503-725-5258

Ron L. Witzak, Executive Director
101 East Hall
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, promoting cultural understanding and engagement focusing on specific geographic regions. In addition OIA hosts Special Programs for international students visiting the US.

Confucius Institute at PSU

Director: Meiru Liu
306 East Hall, 503-725-2285/9810
www.pdx.edu/confucius-institute

The Confucius Institute at PSU (CIPSU) is a joint educational project of Portland State University and the Office of Chinese Language Council International (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 Portland-area businesses and individuals with a strong interest in China. CIPSU is an independently funded entity that reports to PSU's Office of International Affairs.

International Partnerships

Director: Joyce Hamilla
239 East Hall, 503-725-4878

The Office of International Partnerships (OIP) is the focal point for all Portland State University international strategic partnerships. PSU is committed to developing robust, multi-faceted partnerships that include transfer & pathway programs, short-term special programs, education abroad for PSU students, alumni engagement, 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 university landscape.

Institute for Asian Studies
307 East Hall, 503-725-8576
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: Birol Yesilada
650 H Urban & Public Affairs, 503-725-4074
www.pdx.edu/middle-east-studies

The mission of the Middle East Studies Center (MESC) is to promote and facilitate research, teaching, faculty training and development, and public awareness on all regions of the Middle East. 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, the MESC expanded to include all 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, the 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 www.pdx.edu/middle-east-studies and consider becoming a friend of the MESC. You can contact us through our contact page

<http://www.pdx.edu/middle-east-studies/contact> or call us at (503) 725-4074.

IE3: Global Internships

edabroad@pdx.edu
<http://ie3global.ous.edu>

The international internship program, administered by IE3 Global, enables PSU students to acquire international experience for credit as part of their degree.

An IE₃ Global Internship is a supervised, practical, international work experience. Ranging from 10 weeks to nine months of full-time work, the internship integrates academic credit on the home campus with on-the-job experience, allowing students to gain valuable skills while working toward their degree.

The benefits gained from an international internship are numerous: personal growth, a better understanding of world affairs, competitive advantage in the job market, proficiency in a foreign language, understanding of a foreign culture, knowledge of professional practices in another country, maturity and confidence, and professional contacts for future career development.

IE₃ offers internships throughout the world in private-sector companies, government agencies, and non-profit organizations. The latest information on available internships can be found here: <http://ie3global.ous.edu>.

International Student and Scholar Services

Director: Christina Luther
Associate Director: Jill Townley
101 East Hall, 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:

- An intensive orientation program for all incoming international students and faculty.
- Provision of immigration advising for students, visiting scholars, exchange students and scholars.
- Three scholarship programs specifically for international students.
- Sponsorship of a wide 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.
- Preparation of Labor Certification applications on behalf 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.

International Special Programs

Director: Jeff Baffaro
225 East Hall
503-725-4181
www.pdx.edu/intl-special-programs

International Special Programs (ISP) provides 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.

PSU-Waseda Transnational Programs (WTP)

Director: Sally S. Mudiamu
220 East Hall, 503-725-5728
strand@pdx.edu
www.pdx.edu/transnational-programs

PSU-WASEDA Transnational Programs (WTP) runs year-long academic programs for international students at PSU. WTP offers tracks in Business Administration, International Studies, and Health & Sustainability. These programs can serve as reverse study abroad or degree pathways. The one-year curriculum allows highly motivated international students with 460-526 TOEFL scores to immediately enroll in regular courses with local students. Students enrolled in the Waseda Transnational Programs will not be restricted to enroll in regular ESL courses. The program is accelerated and therefore available to motivated and select students who meet certain criteria.

The WTP Office is results-centered for its students' success and provides an extremely high level of support to its students including: 24/7 on-call student services assistant, extracurricular volunteer placements, housing placement, academic advising, TOEFL preparation and cultural/daily living adjustment. The courses are taught by regular PSU faculty and language support specialists to ensure that students are successful and able to participate with native English speakers in the classroom.

Education Abroad

Director: Jen Hamlow
206 East Hall, 503-725-5309
www.pdx.edu/ed-abroad

PSU supports a long-standing tradition that study of 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), IFSA-Butler, and the University Studies Abroad Consortium (USAC).

The office also seeks to facilitate teaching and other opportunities abroad for faculty and to develop bilateral exchanges with universities abroad which will provide exchange opportunities for both faculty and students.

Advisers in the Office of International Affairs 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 been working with faculty to develop a variety of short-term overseas experiences for students. The length of these programs ranges from two weeks to six weeks, and they are offered throughout the academic year. PSU faculty members have taken students to the Caribbean, Ghana, Kenya, Nicaragua, Mexico, Italy, Guatemala, Suriname, India, and Costa Rica. As these programs vary from year to year, please contact the Office of International Affairs for more information.

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 office in East Hall, room 101.

Fulbright Program

Director: Debra Z. Clemans
101 East Hall
clemansd@pdx.edu

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 graduating seniors, alumni, and graduate students for English teaching or advanced research, to qualified faculty for lecturing and research, and to teachers for overseas teacher programs.

Grants for Graduate Study Abroad and Alumni

Fulbright opportunities are announced annually on April 1, and applications should be prepared as soon as possible. The deadline for submission of application materials to the Fulbright adviser is September 7, 2015 for the 2016-2017 academic year. The Fulbright program director disseminates information about grant opportunities and assists in processing grant applications.

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 are in winter term.

University Lecturing/Advanced Research

The Office of International Affairs provides information to faculty on grants for university lecturing or advanced research. Application deadline for most programs is August 1.

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 Clemans
101 East Hall
clemansd@pdx.edu

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 LIBRARY

Marilyn Moody, 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. 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 student 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 or library card 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, two practice presentation rooms, a media viewing room, 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 HONORS COLLEGE

University Honors College
 1632 SW 12th Ave.
 503-725-4928
www.pdx.edu/honors

The Nation's only Urban Honors College

The Urban 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 Urban 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 Urban Honors College; all Honors students graduate with prestigious University Honors in their chosen field.

The Urban Honors College 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.

The Urban Honors College engages faculty from across PSU's campus, giving students the opportunity to work with our finest teachers and researchers. Urban 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/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 Urban Honors College should see the Honors website for instructions on completing an application: www.pdx.edu/honors. 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

Please note: Students who do not meet these criteria but can provide examples of outstanding achievements or document extenuating circumstances are also invited to apply. Letters of recommendation will be considered as part of the application.

Graduation Requirements

All Urban Honors students must complete the Honors College curriculum and a senior thesis supervised by and presented in front of a faculty committee. Graduating from Honors requires a cumulative PSU GPA of 3.25 or higher. Students are welcome to transfer into the Urban Honors College from outside institutions or from within PSU at any point in their academic studies. (See below for placement guidelines.)

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. **Urban Honors students are exempt from all University Studies (UNST) requirements.**

Honors courses satisfy many BA/BS requirements and the writing requirement, as detailed below. In addition, Honors students may count courses, including Departmental Honors seminars, "H" courses, internships, and Honors contracts, toward both Honors and major requirements simultaneously.

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. **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 31-89 college credits should begin with the second year curriculum; all three courses are required. **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, approved study abroad courses, or Honors contracts (maximum 4 credits).
- Students entering Honors with 90+ credits should begin with junior coursework; 12 credits are required. **Senior Year: Honors Thesis (minimum 6 credits)**

- Hon 403: Thesis seminar (4 credits); Hon 403: Research and writing (minimum 2 credits); public presentation and defense
- Students wishing to transfer into Honors as seniors should contact Honors College faculty 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 introduces the basic intellectual framework through which we will think critically about the urban environment and the interdependence between the city and the global world. It begins with the study of representations and perceptions of the city, considers the city in historical context, and concludes with the processes that shape the city's geopolitical manifestations. Class size limited to 25.

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, and specifically the city of Portland, 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 the urban through the application of social science methodologies. Specifically we will focus on the maps of urban planners and geographers, the qualitative and ethnographic analysis of sociologists and anthropologists, and the archival and contextual investigations of urban historians. We will rehearse these skills through research into the neighborhoods of Portland.

Hon 202: Urban Humanities

This course examines the urban surround, this time through the lens of the humanities,

by careful examination of artifacts, texts, and cultural institutions.

Hon 203: Urban Ecology

This course approaches the urban through the lens of science, exploring how science has shaped cities and how cities shape scientific practice. We look at trees, water, soil, and air as the elements of the urban landscape around us, learn about research related to the ecological systems of Portland, and plan research projects that further develop our understanding of the city.

Third year: "Let Knowledge Serve the City" (12 credits)

Honors Junior Seminars: Hon 407 (minimum 4 credits)

Hon 407. One 4-credit Honors 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.

Internships

Hon 404. Maximum 8 credits. Students have the opportunity to gain experience, apply their academic learning, and make connections through approved cooperative education/internships. 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. Maximum 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 Honors seminars and Honors contracts

Departments across campus are invited to create departmental Honors seminars; these

courses simultaneously fulfill Honors and major requirements.

With the approval of Honors and the instructor, students may propose to make a seminar course in their major field Honors-qualified through the completion of additional research, writing, or other work. Maximum 4 credits.

Honors colloquia

Faculty from any department can propose Honors colloquia: these 1 to 4 credit experiences provide creative and engaging projects for students in a small alternative class. Examples of past Honors colloquia have included: attending the Portland Literary Arts lecture series with a faculty, then participating in a discussion and writing a critical response; a five-day ecological tour of the wild spaces at Portland's urban/rural boundary.

Honors Abroad

The Honors College runs faculty-led global seminars just for Honors students every year. Past trips have investigated cultural and ecological sustainability in Borneo, studied sustainable development in the highlands of Nicaragua, and explored global cities in Vietnam.

Fourth year: Community Engagement and Scholarship

Senior Thesis (minimum 6 credits)

Honors students are required to complete a thesis in their major field during their final undergraduate year. Students embark on the thesis project by enrolling in a 4-credit prospectus course (Hon 403) through the Honors College, research and write the thesis over two terms (also Hon 403), and then give a public presentation of their completed work. The thesis represents a valuable opportunity for students to work closely with senior faculty in their home departments as well as Honors faculty and to engage with community partners. Students will work together throughout the year of their thesis research to better understand the public implications of their work.

Honors colloquia (maximum 4 credits)

Honors colloquia (maximum 4 credits)

COLLEGE OF THE ARTS

Wm. Robert Buckner, Dean
Sue Taylor, Associate Dean
Lincoln Hall 349
503-725-3105
www.pdx.edu/the-arts

- B.A., B.S.—Architecture, Art, Art History, Arts Studies, Film, Music, and Theater Arts
- B.F.A.—Art Practices
- B.M.—Performance, Voice, Jazz Studies, Music Education and Composition
- Certificate in Dance
- Minor in Architecture; Art History; Dance; Design Management; Drawing, Painting, Printmaking; Film Studies; Graphic Design; Jazz Studies; Music History; Photography; Sculpture; Time Arts; and Theater Arts
- Secondary Education Program in Art, Music, and Theater Arts
- M.A., M.S.—Music, Theater Arts
- M.M.—Music
- M.Arch—Architecture
- M.F.A.—Contemporary Art Practices

The mission of the College of the Arts is to provide outstanding professional education and training in partnership with the region's working artists, scholars, creative professionals and cultural institutions in the fields of architecture, art and design, music, theatre and film. We create and collaborate, and provide opportunities for faculty and students to shape the future by pushing boundaries. The College of the Arts is a strategic partner in preparing talented young people for leadership in creative careers. 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 a local and global context. Located in the heart of Portland's cultural district, the school resides within the Park Blocks of downtown, in which the major arts organizations are based, such as the Portland Art Museum and the Portland Center for the Performing Arts. We view this

as our extended campus. Within blocks of the school reside theaters, galleries, professional studios, and design and architectural firms, which provide a stimulating environment in which our students develop through interactions and internships. The combination of a celebrated faculty and a professional arts environment creates exciting and challenging undergraduate and graduate programs with high professional standards in all four Schools within the College—Architecture, Art and Design, Music, and Theater and Film.

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/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, arts studies, film, graphic design, theater arts, and the BFA in Art Practices 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 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 their school of 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.

Undergraduate program**ARTS STUDIES – B.A./B.S.**

The Arts Studies program has been suspended; new students are not being accepted at this time.

School of Architecture

235 Shattuck Hall
503-725-8405
www.pdx.edu/the-arts/architecture/

- B.A., B.S.—Architecture
- B.A., B.S.—Architecture with Concentration in Architectural Project Management
- Minor—Architecture
- M. Arch: 2-year track and 3-year track
- Graduate Certificate in Public Interest 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/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 | 12 |
| | Arch Design Studio 2 and/or 3 and/or Arch 384, 385 and/or Arch Design Focus Studio 1 and 2 | |
| Arch 46x | Building Tectonics Elective | 4 |
| Arch 480 | Architectural Design Studio 4 | 6 |
| Arch 481 | Architectural Design Studio 5 | 6 |
| Arch 3xx/4xx | Architectural Upper-Division Elective | 8 |
| 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. All courses used to satisfy the major requirements must be graded C- or higher.

Students receiving a grade of D+, D or D- in any Architectural Design Studio class will not be permitted to progress to the next class in the sequence until a grade of C- or above has been earned in the same class.

The School of Architecture reserves the right to retain 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, beginning in the 2009-2010 academic year, 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 Purchase Program.

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. 25), 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 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.

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 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.)

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: 2015.

The School of Architecture reserves the right to retain 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 Purchase Program.

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 520 | Advanced Architectural Graphics and Media | 4 |
| Arch 531 | Studies in Contemporary Urban Design | 4 |
| Arch 533 | Contemporary Issues Seminar | 4 |
| Arch 534 | Topics in Architectural History and Theory | 4 |
| Arch 535 | Topics in Modernism | 4 |

| | | |
|--------------|--|---|
| Arch 563 | Building Science Research Topics | 4 |
| Arch 567 | Advanced Architectural Structures | 4 |
| Arch 568 | Architectural Technology I | 4 |
| Arch 569 | Architectural Technology II | 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 583 | Architectural Design Studio X | 6 |
| Subtotal: 60 | | |

School of Art+Design

110 Art Building

503-725-3515

<http://www.pdx.edu/the-arts/art-design>

- B.A., B.S.—Concentration in Art Practices and Graphic Design
- B.A./B.S.—Art History, Concentration in Art History
- B.F.A.—Art Practices
- Minors in Art History, Design Management, Drawing/Painting/Printmaking, Graphic Design, Photography, Sculpture and Time Arts
- Secondary Education Program
- M.F.A. in Contemporary Art Practices (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 and design have served and continue to serve the highest aspirations of individuals and communities to express themselves. Students have the opportunity to connect their study of art history with a range of art practices, and with the visual communications tools brought to bear by graphic designers. Studio-based instruction is joined with lectures, seminars and workshop classes. Students have the opportunity to work directly with faculty to plan and carry out a program of study suited to their interests and aspirations. The culture

of the School is one of research, writing and art making, and critique and reflection.

DEPARTMENT ARCHIVAL POLICY

The School of Art and Design reserves the right to retain for archival or exhibition purposes any student work executed as part of a School of Art and Design instructional program. In addition, the department 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

Many prominent Northwest artists, designers, and art historians began their professional careers by studying art at Portland State University. An even greater number of successful and productive people have used their training in the School of Art+Design as the basis for careers in commerce, industry, education, and a variety of fields limited only by imagination. Offering a broad curriculum, including undergraduate degrees in Art History, Art Practices, and Graphic Design, as well as MFA and BFA degrees in Art Practices, the school seeks a diverse student population and takes advantage of its geographical location in the heart of Portland, extending our classroom activities into the city's vibrant cultural community.

With a dedicated faculty actively engaged in their own creative and scholarly research, our student body of aspiring artists, designers and art historians explores new avenues of expression, prepares for professional and academic careers, and builds theoretical and practical foundations for future artistic and intellectual discovery. As a general rule, the major in art requires a minimum of 88 credits in art courses. Included are extensive experiences in studio work and a comprehensive study of the history of art. Majors in art history require a minimum of 68 credits.

DEGREE MAPS AND LEARNING OUTCOMES

Degree maps display the sequence of courses leading up to, in, and through the major or minor to completion of the degree. To view the degree maps and expected learning

outcomes for Art+Design's undergraduate degrees, go to www.pdx.edu/undergraduate-programs and click on the "Degree Maps" column for Art History, Art: Graphic Design, and Art: Practices. If you have any questions, please schedule an appointment with an academic advisor as soon as you can.

UNDERGRADUATE ADMISSION REQUIREMENTS

Admission to the school is based on general admission to the University. See the PSU Bulletin for more information.

When a student is accepted to Portland State University and selects a major within the School of Art+Design, the student is formally admitted to the university and is pre-admitted to the department. Pre-admission ends however, in a student's junior year.

When a student reaches the junior year based on the University's definition of class standing (90-134 credits), the student is formally and automatically admitted into the School of Art+Design and College of the Arts.

Formal admission allows the student to continue on his or her degree path unhindered. Once admitted, the student will be authorized to take otherwise college restricted upper-division courses.

After being admitted to the school and college, Graphic Design students must also pass a sophomore portfolio review to be eligible to take 300 and 400 level graphic design courses. Students hoping to be accepted to the BFA program in Art Practices must submit a formal application near the end of their third year and be formally accepted into that degree program.

Changing majors or opting-out

Once formally admitted into the College of the Arts a student may decide he or she would rather not continue working toward a degree in the School of Art+Design. In this case, the student will need to formally change the major through the Office of Admissions. In addition, the student must notify the School of Art+Design by e-mail of this status change (art@pdx.edu). Once the major change has been verified, admission to the College of the Arts will be cancelled and the student will no longer be able to register for college restricted courses.

ART MAJOR AND MINOR DEGREE REQUIREMENTS

In addition to general University requirements for a degree, majors and minors in art must meet departmental requirements. Please visit the the school web site, <http://www.pdx.edu/art-design/> or office to obtain a "Program Major Course Distribution Sheet" that describes the program in detail. All students must obtain an adviser for academic planning of their program by the second year.

All art and art history courses used to satisfy departmental major or minor requirements, whether taken in the department or elsewhere, must be assigned a grade of C- or better.

For students transferring from other colleges and universities, a maximum of 12 credits may be graded P (pass) and may be accepted in fulfilling art department requirements with approval from an art adviser. In addition, any upper-division transfer credits being applied to major requirements must meet departmental standards. In these cases, a portfolio of work is required and the work contained in it must be approved by the concentration's coordinator to receive transfer credit.

To satisfy the school major requirements students must complete at least 24 credits of their upper-division (300/400) art/art history courses in residency at PSU. These 24 credits must be primarily within the student's focus of study in art.

To satisfy school minor requirements students must complete at least 24 credits of their work within the subject area in residency at PSU. These 24 credits must primarily be in 200/300 level courses within the student's focus area.

The School of Art and Design reserves the right to cancel any course that does not have sufficient enrollments, in accordance with University policy.

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. We offer three distinct tracks for the art history B.A./B.S. The first provides a critical

analysis focus and is intended for those students planning work requiring more advanced writing and analytical skills. The second track offers the opportunity to combine art history with art practices, and is well suited to those entering professions that engage directly with the physical artwork, such as in art galleries or conservation. The third possibility combines art history with graphic design. All three options within art history begin with the lower-division History of Western Art sequence, and advance to upper-division art history courses comprising both Western and non-Western traditions.

GRAPHIC DESIGN—B.A./B.S.

The graphic design program provides a comprehensive education in design principles, applications, theories, history, and practice. The curriculum places particular emphasis on craft, concept, and research skills, as well as the development of effective design processes, the generation of meaningful narratives and story-telling techniques, and engagement with various community partners. Students work with faculty primarily through studio courses that introduce an increasing complexity of design problems and methodologies, combined with opportunities for independent development and interaction with professionals. The 100-level courses in graphic design introduce basic principles of design and art and their specific applications in graphic design. The 200-level courses provide a comprehensive studio experience with an increased emphasis on design thinking.

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. Contact the School of Art and Design at 503-725-3515, or visit the website (<http://www.pdx.edu/art-design/>) or the graphic design program site (<http://www.pdx.edu/the-arts/art-design>) for details. Only after successfully passing the Review are graphic design majors allowed to continue progression through the program. In their 300- and 400-level course work, students choose courses of increasing specialization, have opportunities for engaging in professional internships, and

work to develop a professional portfolio as the culmination of their design studies.

It is important to note that owning a laptop computer provides students with critical advantages for successful progression through the graphic design program. Especially in regards to their ability to work in our classrooms and studio spaces, students with laptop computers are better equipped to complete project assignments, conduct research, and maintain an awareness of activities occurring in design both within the program and beyond. Therefore, beginning in the 2010-2011 academic year, all students majoring in graphic design who enroll in 200-level graphic design courses 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/sites/www.pdx.edu.the-arts/files/art-laptop-recommendations-2010.pdf>.

All students majoring in graphic design and taking 100-level graphic design courses are advised to purchase one of the recommended laptop systems. The sooner students make a commitment to owning a laptop system, the sooner the advantages of ownership will impact their ability to perform competitively and successfully in graphic design.

ART PRACTICES—B.A./B.S.

The BA/BS is a liberal arts degree in visual art (88 credits). The studio art program provides a comprehensive view of studio art practices, applications, theories, and history, with an emphasis on trends in contemporary art. The first and second years focus on foundation courses including art history, drawing, art theory and design. During the second year the student is encouraged to begin sampling a variety of studio courses in printmaking, painting, drawing, sculpture, digital art and art and social practices. In the third and fourth years students select a focus, further developing their knowledge of visual language, media skills and the conceptual and expressive aspects of their work. Also, during the third and fourth years critical theory and professional practices in art are investigated, aiding the student in establishing a sense of place within the visual arts community.

ART PRACTICES—B.F.A.

The BFA (108 credits) is a professional degree, providing students with knowledge and skills designed specifically to prepare them for a career as a practicing artists and/or the master of fine art degree. It is a competitive program that provides a comprehensive education in visual art practices, applications, theories, and history, with an emphasis on trends in contemporary art. The BFA differs from the BA/BS in Art, providing greater depth conceptually and technically, as well as emphasizing professional preparation. Students interested in the BFA degree will submit a portfolio for review at the end of spring quarter in their third year of study. (Submission is made only after completing 72 of the required 88 credits and selected art courses in the first three years of the BA/BS degree program.) The BFA degree requires the student to research, develop, assemble and present a strong body of well conceived and executed work. The culminating body of work is presented in a thesis exhibition and includes an oral defense.

For the most up to date information on the BFA and how to apply please visit our website <http://www.pdx.edu/the-arts/bachelor-of-fine-arts-in-art-practices>.

Graduate Programs

The School of Art+Design offers a two-year in-residency study program or a three-year low-residency program leading to the Master of Fine Arts degree in Contemporary Art Practice. In residency students choose an emphasis in either Studio Practice or Social Practice and low-residency students must select Social Practice. These 90-credit programs prepare the student to be a practicing artist within a regional, national, and international arts community.

The student will acquire a strong theoretical foundation in order to analyze and discuss their work and that of others as well as to place their work in a historical and socio-cultural context. In addition, the student cultivates work, process, and research habits required of the self-directed artist. The MFA in Contemporary Art Practices is a small, individualized program that offers the student great accessibility to the MFA faculty on an ongoing basis, providing constant assessment and direction.

GRADUATE ADMISSION REQUIREMENTS

Application for admission to the MFA program must be made by February 1 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. Rare exceptions may be made for related experience and a solid art history background.

The application is a dual process between the School of Art and Design and the Office of Admissions. Therefore the applicant also must contact the PSU Office of Admissions for a graduate admission application.

The school application is submitted on-line. 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/mfa-admissions-requirements>.

CONTEMPORARY ART PRACTICES M.F.A.

DEGREE REQUIREMENTS

All students will complete at least 90 credits. 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 an exhibition project in their final year of their program.

Students are admitted conditionally and must pass a midpoint candidacy review in order to gain regular admission to the university and continue work towards their degree. (Students in-residency are receive a candidacy review at the end of their first year and low-residency resident students are reviewed at the end of their second year). Individual faculty discussions, peer critiques, seminars in current issues/contemporary art history and weekly lectures by nationally and internationally recognized visiting artists help students broaden their field of inquiry.

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 Art Department)
- 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 exhibition project. The project is presented in a public exhibition or other appropriate form in the spring quarter of the second year or third year.

ART EDUCATION: SECONDARY EDUCATION PROGRAM

Grades K through 12

Students who wish to teach art in the public schools must first complete a B.A., B.S. or B.F.A. in Art before applying to the School of Education for teacher training in the graduate program.

Prospective teachers should contact the art education adviser in the School of Art and Design before beginning the program.

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. It is imperative that the prospective teacher be in touch with the art education adviser from the beginning, as applicants for licensure must meet the commissions requirements in force at the time of the licensure application. Please refer to the Graduate School of Education requirements (p. 97).

School of Music

231 Lincoln Hall
503-725-3011
www.pdx.edu/the-arts/music

- B.A., B.S.—Performance, Musicology/Ethnomusicology, and Music Theory
- Minor in Music, Minor in Jazz Studies, and Minor in Music History

- B.M. —Performance, Voice, Jazz Studies, Music Education, and Composition
- M.A., M.S. —Music
- M.M.—Performance, Conducting, and Jazz Studies

Mission statement

The School of Music exists to provide an excellent forum for the professional training and support of a highly diverse student body in the areas of performance, conducting, jazz studies, music education, and composition. In addition, the School provides general training in music where students study theory, history, literature, pedagogy, composition, improvisation, music technology, and ethnomusicology. Framed by the University's motto, "*Let Knowledge Serve the City*" the School of Music offers a wide spectrum of activities by students, faculty, and guest artists which enhances the artistic and cultural life of the city of Portland.

Undergraduate programs

The School of Music is located within the hub of musical 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 Symphonic Choir, Portland Jazz Orchestra, and Portland Youth Philharmonic, among other organizations. Faculty and students alike interact with these performing organizations in various ways. Both traditional and innovative musical opportunities through the study of classical performance, jazz performance, pedagogy, music history, ethnomusicology, theory, conducting, composition and music education are available for PSU students who live in the community or in campus housing.

Faculty members in the School of Music are internationally recognized performers, conductors, composers, and scholars. From the beginning of their studies, music majors and minors study with some of the finest faculty in the nation in the string, wind, brass, percussion, piano, jazz, vocal, composition and music education areas. Standards are high as students pursue the conservatory-like Bachelor of Music degree or the more general Bachelor of Arts or Science in Music. Graduates have

consistently demonstrated their excellence in the fields of performance, conducting, composition, and scholarship. Many are leaders in music around the Northwest and elsewhere.

Programs in the School of Music are accredited by the National Association of Schools of Music. The School also offers many courses for the non-major, including: Beginning Guitar, Beginning Piano, Beginning Voice, Introduction to Music, Survey of Music Literature, Applied Music, University Chorus, Women's Chorus, University Band, PSU Orchestra, Basic Materials of Music, Music Theory I, Music in the Western World, History of Rock, Jazz History, Guitar History, World Music, Improvisation, and American Musical Traditions.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Music's undergraduate degrees, go to www.pdx.edu/undergraduate-programs.

ADMISSIONS REQUIREMENT

Admission to the School is based on general admission to the University. (See "Admission requirements (p. 5)" for more information.) Additionally, the School of Music requires students to apply to the School and audition before they are accepted into the music program. See the School of Music website for application and audition requirements and deadlines.

DEGREE REQUIREMENTS

All courses used to satisfy the School of Music major and minor requirements, whether taken in the School or elsewhere, must be graded C or above. In all degrees where upper division applied music is required, students must pass the mandatory upper division examination. Admission to the BM in Music Education program or the BM in Composition program is contingent on a mandatory portfolio review.

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 | no |
| Mus 048 | Junior Recital | no |
| Mus 049 | Senior Recital | no |
| Mus 111 | Music Theory I | 3 |
| Mus 112 | Music Theory I | 3 |
| Mus 113 | Music Theory I | 3 |
| Mus 114 | Sight-Singing/Ear Training | 1 |
| Mus 115 | Sight-Singing/Ear Training | 1 |
| Mus 116 | Sight-Singing/Ear Training | 1 |
| Mus 188 | Performance Attendance Mus 195, 196, 197, or 198 Band, Orchestra, Choir, or Jazz Lab Band | 6 |
| Mus 205 | Listening I | 1 |
| Mus 206 | Listening II | 1 |
| Mus 211 | Music Theory II | 3 |
| Mus 212 | Music Theory II | 3 |
| Mus 213 | Music Theory II | 3 |
| Mus 214 | Sight Singing and Ear Training | 1 |
| Mus 215 | Sight Singing and Ear Training | 1 |
| Mus 216 | Sight Singing and Ear Training | 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 | 4 |
| Mus 305 | Music History | 4 |
| Mus 306 | Music History | 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 | Midi Applications or | 2 |
| Mus 475 | Midi Applications | 2 |

| | | |
|---------|--|---------|
| Mus 476 | Computer Music Composition Music Electives (chosen in consultation with advisor) | 3 15 |
|---------|--|---------|

One of the following:

| | | |
|---------|-----------------------------|---|
| Mus 355 | Jazz History | 4 |
| Mus 374 | World Music | 4 |
| Mus 375 | World Music | 4 |
| Mus 376 | American Musical Traditions | 4 |

Mup 190 & Mup 290 Applied Music: 12 credits in performance.

Mup 390 & Mup 490 Applied Music: 12 credits in composition.

Mus 114 – Mus 116: concurrent enrollment with Mus 111, 112, 113 required

Mus 214 - Mus 216: concurrent enrollment with Mus 211, 212, 213 required)

Mus 188: must be taken concurrently with Applied Music each term through the completion of Mup 390 for a total of 9 terms.

Music majors must enroll in Applied Music and the related Large Ensemble each term. The credits in Applied Music are divided 6 credits at each level. 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 Large 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.

Total Credit Hours: 123

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 | no |
| Mus 048 | Junior Recital | no |
| Mus 049 | Senior Recital | no |
| Mus 111 | Music Theory I | 3 |
| Mus 112 | Music Theory I | 3 |
| Mus 113 | Music Theory I | 3 |
| Mus 114 | Sight-Singing/Ear Training | 1 |
| Mus 115 | Sight-Singing/Ear Training | 1 |
| Mus 116 | Sight-Singing/Ear Training | 1 |
| Mus 188 | Performance Attendance | |
| Mus 198 | Jazz Lab Band | 6 |
| Mus 205 | Listening I | 1 |
| Mus 206 | Listening II | 1 |
| Mus 211 | Music Theory II | 3 |
| Mus 212 | Music Theory II | 3 |
| Mus 213 | Music Theory II | 3 |
| Mus 214 | Sight Singing and Ear Training | 1 |
| Mus 215 | Sight Singing and Ear Training | 1 |
| Mus 216 | Sight Singing and Ear Training | 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 | 2 |
| Mus 304 | Music History | 4 |
| Mus 305 | Music History | 4 |
| Mus 306 | Music History | 4 |
| Mus 320 | Fundamentals of Conducting | 2 |
| Mus 355 | 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 (chosen in consultation with advisor) | 9 |
| Mup 390, Mup 490: 6 credits of 390 and 6 credits of 490 | | |
| Mus 046: (jazz section) | | |

Mus 188: must be taken concurrently with Applied Music for a total of 9 terms.

Mus 198, Mus 398: Music majors must enroll in Applied Music and the related Large Ensemble each term.

Mus 211 - Mus 213

Mus 114 – Mus 116: (concurrent enrollment with Mus 111, 112, 113 required)

Mus 214 – Mus 216: (jazz section), concurrent enrollment with Mus 211, 212, 213 required.

Mus 291– Mus 293: (jazz section)

Mus 355: jazz majors section.

Subtotal: 123

MUSIC EDUCATION B.M.

Area 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:

| Required Music Courses | | |
|-------------------------------|--|----|
| Mup 190 | Applied Music | 3 |
| Mup 290 | Applied Music | 3 |
| | Mup 390/490 Applied Music | 6 |
| Mus 046 | Piano Proficiency Exam | no |
| Mus 047 | Final Project | no |
| Mus 111 | Music Theory I | 3 |
| Mus 112 | Music Theory I | 3 |
| Mus 113 | Music Theory I | 3 |
| Mus 114 | Sight-Singing/Ear Training | 1 |
| Mus 115 | Sight-Singing/Ear Training | 1 |
| Mus 116 | Sight-Singing/Ear Training | 1 |
| Mus 188 | Performance Attendance | |
| | Mus 195, 196, 197, or 198 Band, Orchestra, Choir, or Jazz Lab Band | 6 |
| Mus 205 | Listening I | 1 |
| Mus 206 | Listening II | 1 |
| Mus 211 | Music Theory II | 3 |
| Mus 212 | Music Theory II | 3 |
| Mus 213 | Music Theory II | 3 |
| Mus 214 | Sight Singing and Ear Training | 1 |
| Mus 215 | Sight Singing and Ear Training | 1 |
| Mus 216 | Sight Singing and Ear Training | 1 |
| Mus 291 | Advanced Class Piano | 2 |
| Mus 292 | Advanced Class Piano | 2 |
| Mus 293 | Advanced Class Piano | 2 |
| Mus 304 | Music History | 4 |

| | | |
|----------|--|---|
| Mus 305 | Music History | 4 |
| Mus 306 | Music History | 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 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 355 | Jazz History | 4 |
| Mus 374 | World Music | 4 |
| Mus 375 | World Music | 4 |
| Mus 376 | American Musical Traditions | 4 |

Mus 114 – Mus 116: (concurrent enrollment with Mus 111, Mus 112, Mus 113 required)

Mup 190, Mus 195, Mus 395: Music majors must enroll in Applied Music and the related Large Ensemble each term.

Mus 188: must be taken concurrently with Applied Music for a total of 9 terms. Students attend eight Noon Concerts each term.

Mup 190, Mup 290, Mup 390 & Mup 490: (a minimum of 6 upper-division credits is required: 6 credits of 390 or 490)

Mus 214 – Mus 216: (concurrent enrollment with Mus 211, Mus 212, Mus 213 required)

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 | Jazz Techniques | 1 |

| | | | |
|------|-------------------------|----|--|
| 341 | | | |
| MuEd | Instrumental Literature | 3 | |
| 422 | and Rehearsal | | |
| | Techniques I | | |
| MuEd | Instrumental Literature | 3 | |
| 423 | and Rehearsal | | |
| | Techniques II | | |
| | Music Electives (chosen | 13 | |
| | in consultation with | | |
| | advisor) | | |

Choral/General Track

| | | | |
|---------|-------------------------|----|--|
| Mus 397 | Chorus | 1 | |
| MuEd | Kodály Training: Level | 5 | |
| 480 | I | | |
| | or | | |
| MuEd | Kodály Training: Level | 5 | |
| 481 | II | | |
| | or | | |
| MuEd | Kodály Training: Level | 5 | |
| 482 | III | | |
| MuEd | Wind Instrument | 3 | |
| 340 | Techniques | | |
| MuEd | Choral Literature and | 3 | |
| 420 | Rehearsal Techniques I | | |
| MuEd | Choral Literature and | 3 | |
| 421 | Rehearsal Techniques II | | |
| | Music Electives (chosen | 12 | |
| | in consultation with | | |
| | advisor) | | |

Subtotal: 123

**MUSICOLOGY/ETHNOMUSICOLOGY
B.A./B.S.**

Area Coordinator: W. Kiyama

REQUIREMENTS

Required Courses

| | | | |
|---------|-------------------------|------|--|
| Mup 190 | Applied Music | 3 | |
| Mup 290 | Applied Music | 3 | |
| Mus 046 | Piano Proficiency Exam | (no) | |
| Mus 047 | Final Project | (no) | |
| Mus 111 | Music Theory I | 3 | |
| Mus 112 | Music Theory I | 3 | |
| Mus 113 | Music Theory I | 3 | |
| Mus 114 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 115 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 116 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 188 | Performance | | |
| | Attendance | | |
| | Mus 195, 196, 197, or | 6 | |
| | 198 Band, Orchestra, | | |
| | Choir, or Jazz Lab Band | | |
| Mus 205 | Listening I | 1 | |
| Mus 206 | Listening II | 1 | |
| Mus 211 | Music Theory II | 3 | |
| Mus 212 | Music Theory II | 3 | |
| Mus 213 | Music Theory II | 3 | |
| Mus 214 | Sight Singing and Ear | 1 | |
| | Training | | |
| Mus 215 | Sight Singing and Ear | 1 | |
| | Training | | |

| | | | |
|---------|-------------------------|---|--|
| Mus 216 | Sight Singing and Ear | 1 | |
| | Training | | |
| Mus 304 | Music History | 4 | |
| Mus 305 | Music History | 4 | |
| Mus 306 | Music History | 4 | |
| Mus 411 | Topics in Music History | 2 | |

Two of the following (8 credits)

| | | | |
|---------|------------------|---|--|
| Mus 374 | World Music | 4 | |
| Mus 375 | World Music | 4 | |
| Mus 376 | American Musical | 4 | |
| | Traditions | | |

Music Electives

| | | | |
|--|--|---|--|
| | Chosen in consultation with an adviser | | |
| | Electives | 6 | |
| | Subtotal: 66 | | |

MUSIC THEORY B.A./B.S.

Area Coordinator: B. Hansen

REQUIREMENTS

Required Courses

| | | | |
|---------|-------------------------|------|--|
| Mup | Applied Music | 3 | |
| 190 | | | |
| Mup | Applied Music | 3 | |
| 290 | | | |
| Mus 046 | Piano Proficiency Exam | (no) | |
| Mus 047 | Final Project | (no) | |
| Mus 111 | Music Theory I | 3 | |
| Mus 112 | Music Theory I | 3 | |
| Mus 113 | Music Theory I | 3 | |
| Mus 114 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 115 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 116 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 188 | Performance Attendance | | |
| | Mus 195, 196, 197, or | 6 | |
| | 198 Band, Orchestra, | | |
| | Choir, or Jazz Lab Band | | |
| Mus 205 | Listening I | 1 | |
| Mus 206 | Listening II | 1 | |
| Mus 211 | Music Theory II | 3 | |
| Mus 212 | Music Theory II | 3 | |
| Mus 213 | Music Theory II | 3 | |
| Mus 214 | Sight Singing and Ear | 1 | |
| | Training | | |
| Mus 215 | Sight Singing and Ear | 1 | |
| | Training | | |
| Mus 216 | Sight Singing and Ear | 1 | |
| | Training | | |
| Mus 304 | Music History | 4 | |
| Mus 305 | Music History | 4 | |
| Mus 306 | Music History | 4 | |
| Mus 311 | Formal Analysis | 3 | |
| Mus 312 | Orchestration | 3 | |
| Mus 313 | Counterpoint | 3 | |
| Mus 421 | Analysis of | 3 | |
| | Contemporary Music | | |
| | or | | |
| Mus 422 | Analytical Techniques | 3 | |

Music Electives

Chosen in consultation with an adviser

| | | | |
|--|--------------|---|--|
| | Electives | 4 | |
| | Subtotal: 66 | | |

PERFORMANCE B.A./B.S.

REQUIREMENTS

Required Courses

| | | | |
|---------|-------------------------|------|--|
| Mup | Applied Music | 3 | |
| 190 | | | |
| Mup | Applied Music | 3 | |
| 290 | | | |
| | Mup 390/490 Applied | 6 | |
| | Music | | |
| Mus 046 | Piano Proficiency Exam | (no) | |
| Mus 047 | Final Project | (no) | |
| | or | | |
| Mus 048 | Junior Recital | no | |
| Mus 111 | Music Theory I | 3 | |
| Mus 112 | Music Theory I | 3 | |
| Mus 113 | Music Theory I | 3 | |
| Mus 114 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 115 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 116 | Sight-Singing/Ear | 1 | |
| | Training | | |
| Mus 188 | Performance Attendance | | |
| | Mus 195, 196, 197, or | 6 | |
| | 198 Band, Orchestra, | | |
| | Choir, or Jazz Lab Band | | |
| Mus 205 | Listening I | 1 | |
| Mus 206 | Listening II | 1 | |
| Mus 211 | Music Theory II | 3 | |
| Mus 212 | Music Theory II | 3 | |
| Mus 213 | Music Theory II | 3 | |
| Mus 214 | Sight Singing and Ear | 1 | |
| | Training | | |
| Mus 215 | Sight Singing and Ear | 1 | |
| | Training | | |
| Mus 216 | Sight Singing and Ear | 1 | |
| | Training | | |
| Mus 304 | Music History | 4 | |
| Mus 305 | Music History | 4 | |
| Mus 306 | Music History | 4 | |
| Mus 351 | Accompanying | 2 | |
| | Mus 395, 396, 397, or | 6 | |
| | 398 Band, Orchestra, | | |
| | Choir, or Jazz Lab Band | | |

Music Electives

Chosen in consultation with an adviser
Electives 4

Mup 390 or Mup 390/490 Applied Music - a minimum of 6 upper-division credits is required.

Mus 351 - required of piano majors in lieu of 2 credits of Mus 395, Mus 396, Mus 397, or Mus 398.

Subtotal: 66

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 | no |
| Mus 048 | Junior Recital | no |
| Mus 049 | Senior Recital | no |
| Mus 111 | Music Theory I | 3 |
| Mus 112 | Music Theory I | 3 |
| Mus 113 | Music Theory I | 3 |
| Mus 114 | Sight-Singing/Ear Training | 1 |
| Mus 115 | Sight-Singing/Ear Training | 1 |
| Mus 116 | Sight-Singing/Ear Training | 1 |
| Mus 188 | Performance Attendance | |
| | Mus 194, 394 Chamber Music | 6 |
| | Mus 195, 196, or 197 Band, Orchestra, or Chorus | 6 |
| Mus 205 | Listening I | 1 |
| Mus 206 | Listening II | 1 |
| Mus 211 | Music Theory II | 3 |
| Mus 212 | Music Theory II | 3 |
| Mus 213 | Music Theory II | 3 |
| Mus 214 | Sight Singing and Ear Training | 1 |
| Mus 215 | Sight Singing and Ear Training | 1 |
| Mus 216 | Sight Singing and Ear Training | 1 |
| Mus 291 | Advanced Class Piano | 2 |
| Mus 292 | Advanced Class Piano | 2 |
| Mus 293 | Advanced Class Piano | 2 |
| Mus 304 | Music History | 4 |
| Mus 305 | Music History | 4 |
| Mus 306 | Music History | 4 |
| Mus 311 | Formal Analysis | 3 |
| Mus 312 | Orchestration | 3 |
| Mus 313 | Counterpoint | 3 |
| Mus 320 | Fundamentals of Conducting | 2 |
| Mus 351 | Accompanying | 2 |
| | Mus 395, 396, or 397 Band, Orchestra, or Chorus | 6 |
| Mus 411 | Topics in Music History | 2 |
| Mus 481 | Pedagogy | 3 |
| | Music Electives (chosen in consultation with advisor) | 17 |
| One of the following (4 credits): | | |
| Mus 355 | Jazz History | 4 |
| Mus 374 | World Music | 4 |
| Mus 375 | World Music | 4 |

Mus 376 American Musical Traditions 4

Mus 114-116: (concurrent enrollment with Mus 111, Mus 112, Mus 113 required)

Mus 188: Mus 188 must be taken concurrently with Applied Music for a total of 9 terms.

Mus 194, Mus 394: (minimum of 3 upper-division credits required)

Mus 194: Music majors must enroll in the related Chamber Music Ensemble.

Mus 195, Mus 395: Music majors must enroll in Applied Music and the related Large Ensemble each term.

Mus 214-216: (concurrent enrollment with Mus 211, Mus 212, Mus 213 required)

Mus 351: (required of piano majors only in lieu of 2 credits of Mus 395, Mus 396, or Mus 397)

Mup 390 – Mup 490: (6 credits of 390 and 6 credits of 490)
Subtotal: 123

PERFORMANCE WITH AN EMPHASIS ON VOICE B.M.

Area 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 | no |
| Mus 048 | Junior Recital | no |
| Mus 049 | Senior Recital | no |
| Mus 111 | Music Theory I | 3 |
| Mus 112 | Music Theory I | 3 |
| Mus 113 | Music Theory I | 3 |
| Mus 114 | Sight-Singing/Ear Training | 1 |
| Mus 115 | Sight-Singing/Ear Training | 1 |
| Mus 116 | Sight-Singing/Ear Training | 1 |
| Mus 188 | Performance Attendance | |
| Mus 197 | Chorus | 6 |
| Mus 205 | Listening I | 1 |
| Mus 206 | Listening II | 1 |
| Mus 211 | Music Theory II | 3 |
| Mus 212 | Music Theory II | 3 |

Mus 213 Music Theory II 3

Mus 214 Sight Singing and Ear Training 1

Mus 215 Sight Singing and Ear Training 1

Mus 216 Sight Singing and Ear Training 1

Mus 291 Advanced Class Piano 2

Mus 292 Advanced Class Piano 2

Mus 293 Advanced Class Piano 2

Mus 304 Music History 4

Mus 305 Music History 4

Mus 306 Music History 4

Mus 312 Orchestration 3

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

Music Electives (chosen in consultation with advisor) 8

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

One of the following (3 credits)

Mus 430 Song Literature 3

Mus 436 Opera Literature 3

One of the following (4 credits)

Mus 355 Jazz History 4

Mus 374 World Music 4

Mus 375 World Music 4

Mus 376 American Musical Traditions 4

Two of the following (8 credits)

It 103 First-year Italian 4

Fr 103 First-year French 4

Ger 103 First-year German 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)

Mus 188: must be taken concurrently with Applied Music for a total of 9 terms.

Students attend eight Noon Concerts each term.

Mus 190: Music majors must enroll in Applied Music and the related Large Ensemble each term.

Mus 427: Voice majors are required to take Opera Workshop twice.

Subtotal: 123

JAZZ STUDIES MINOR**REQUIREMENTS**

To earn a Minor in Jazz Studies, a student must complete 35 advisor-approved credits (17 credits must be in residence at Portland State University), to include the following:

Courses

| | | |
|---------|----------------------------|---|
| Mup 190 | Applied Music | 3 |
| Mup 290 | Applied Music | 3 |
| Mus 111 | Music Theory I | 3 |
| Mus 112 | Music Theory I | 3 |
| Mus 113 | Music Theory I | 3 |
| Mus 114 | Sight-Singing/Ear Training | 1 |
| Mus 115 | Sight-Singing/Ear Training | 1 |
| Mus 116 | Sight-Singing/Ear Training | 1 |
| Mus 188 | Performance Attendance | |
| Mus 198 | Jazz Lab Band | 6 |
| Mus 203 | Music in the Western World | 4 |
| Mus 355 | Jazz History | 4 |
| Mus 398 | Jazz Lab Band | 3 |

Mus 114 – Mus 116: Concurrent enrollment in Mus 111, Mus 112, and Mus 113 is required.

Mus 188: To be taken concurrently with Applied Music

Mup 190, Mup 290, Mus 298: Music minors must enroll in Applied Music and the related large ensemble.
Subtotal: 35

MUSIC MINOR**REQUIREMENTS**

To earn a Minor in Music, a student must complete 35 advisor-approved credits (17 credits must be in residence at Portland State University), to include the following:

Courses

| | | |
|----------------------|----------------------------|---|
| Mup 190 | Applied Music | 3 |
| Mup 290 | Applied Music | 3 |
| Mus 111 | Music Theory I | 3 |
| Mus 112 | Music Theory I | 3 |
| Mus 113 | Music Theory I | 3 |
| Mus 114 | Sight-Singing/Ear Training | 1 |
| Mus 115 | Sight-Singing/Ear Training | 1 |
| Mus 116 | Sight-Singing/Ear Training | 1 |
| Mus 188 | Performance Attendance | |
| Mus 195, 196, or 197 | Band, Orchestra, or Chorus | 6 |
| Mus 203 | Music in the Western World | 4 |
| Mus 395, 396, or 397 | | 3 |

Band, Orchestra, or Choir
Upper-division Music History or World Music 4

Mus 114 – Mus 116: Concurrent enrollment in Mus 111, Mus 112, and Mus 113 is required.

Mup 190, Mup 290, Mus 195, Mus 395: Music minors must enroll in Applied Music and the related large ensemble.

Mus 188: To be taken concurrently with Applied Music.
Subtotal: 35

MUSIC HISTORY MINOR**REQUIREMENTS**

To earn a Minor in Music History, a student must complete 31 advisor-approved credits (17 credits must be in residence at Portland State University), to include the following:

Courses

| | | |
|---------|----------------------------|---|
| Mus 111 | Music Theory I | 3 |
| Mus 112 | Music Theory I | 3 |
| Mus 113 | Music Theory I | 3 |
| Mus 188 | Performance Attendance | |
| Mus 191 | Class Instruction | 2 |
| Mus 192 | Class Instruction | 2 |
| Mus 193 | Class Instruction | 2 |
| Mus 203 | Music in the Western World | 4 |

Three elective courses: (12 credits)

| | | |
|---------|-----------------------------------|---|
| Mus 304 | Music History | 4 |
| Mus 305 | Music History | 4 |
| Mus 306 | Music History | 4 |
| Mus 355 | Jazz History | 4 |
| Mus 360 | The Guitar: its History and Music | 4 |
| Mus 361 | History of Rock Music | 4 |
| Mus 362 | History of Rock Music | 4 |
| Mus 374 | World Music | 4 |
| Mus 375 | World Music | 4 |
| Mus 376 | American Musical Traditions | 4 |

Mus 111 – Mus 113: (Concurrent enrollment in Mus 114, Mus 115 & Mus 116 is not required for this minor.)

Mus 188: (Six terms are required.)

Mus 191 - Mus 193: (Piano)
Subtotal: 31

Graduate programs

Graduate Coordinator: R. Babcock

The School of Music 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's Web site 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. 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

All M.A./M.S. candidates must take a final written examination.

CORE CURRICULUM**All of the following:**

| | | |
|---------|--|---|
| 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 Education/Pedagogy (chosen with adviser's assistance) | 3 |
| | | 6 |

Mup 591: (may substitute Mup 590 credits with adviser approval)

One of the following: (2-3 credits)

| | | |
|---------|-------------------------------|---|
| Mus 521 | Advanced Band Arranging | 3 |
| 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 |
| 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 (9-10 credits)

Music electives chosen from the following areas: applied music, theory, arranging, composition, music history, world music, music literature, pedagogy, education, conducting, or additional ensemble performance

Subtotal: 45

M.M. PROGRAM**MASTER OF MUSIC IN****PERFORMANCE**

For an M.M. in Vocal Performance consult the School of Music for Language Requirement.

All of the following:

| | | |
|---------|---------------------------------|----|
| Mup 590 | Applied Music | 12 |
| Mus 506 | Graduate Project or Recital | 2 |
| Mus 511 | Music Research Methods | 3 |
| Mus 520 | Analytical Techniques Electives | 3 |
| | | 9 |

Electives: (Determined in conjunction with advisor)

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 594 | Chamber Music | 1 |
| Mus 595 | Band | 1 |
| Mus 596 | Orchestra | 1 |

| | | |
|--------------|----------------|---|
| Mus 597 | Chorus | 1 |
| Mus 598 | Jazz Lab Band | 1 |
| Mus 527 | Opera Workshop | 1 |
| Subtotal: 45 | | |

MASTER OF MUSIC IN CONDUCTING**One of the following: (3 credits)**

| | | |
|---------|-------------------------------|---|
| Mus 521 | Advanced Band Arranging | 3 |
| Mus 522 | Advanced Orchestral Arranging | 3 |
| Mus 523 | Advanced Choral Arranging | 3 |

All of the following:

| | | |
|---------|---------------------------------|---|
| Mus 506 | Graduate Project or Recital | 2 |
| Mus 511 | Music Research Methods | 3 |
| Mus 513 | Score Reading | 3 |
| Mus 520 | Analytical Techniques Electives | 3 |
| | | 9 |

Electives: (Determined in conjunction with advisor)

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 |
| 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 |

Chosen with advice of graduate faculty (6 credits)

| | | |
|--------------|-----------|---|
| Mus 595 | Band | 1 |
| Mus 596 | Orchestra | 1 |
| Mus 597 | Chorus | 1 |
| Subtotal: 45 | | |

MASTER OF MUSIC IN JAZZ STUDIES**All of the following:**

| | | |
|---------|-----------------------------|----|
| 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 |
| 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 |

Music electives are determined in conjunction with the adviser and chosen from these areas: applied music, theory, diction, arranging, composition, music history, world music, music literature, pedagogy, conducting, or additional ensemble performance.
Subtotal: 45

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.

School of Theater + Film

127 Lincoln Hall
tel 503-725-4612
fax 503-725-4624

www.pdx.edu/the-arts/theatre-film

- B.A., B.S. in Theater Arts
- B.A., B.S. in Film
- Certificate in Dance
- Minor in Dance, Film Studies, Theater Arts
- Secondary Education Program - Drama
- M.A., M.S. in Theater Arts

Practicing a dynamic array of disciplines, the dedicated professional faculty in the School of Theater + Film integrate ideas, practices, and processes in multiple degree programs in live and mediated performance enabling our students to become outstanding creative artists and leaders in a variety of chosen careers, and engaged partners in their local and global communities.

Undergraduate Programs

The School of Theater + Film is committed to providing liberal arts based professional training that imaginatively balances theory and practice. Through classroom study, studio/laboratory preparation, field studies, and stage productions, students are challenged to pursue a commitment to individual excellence and collaboration, discover a passion for their discipline, and develop a firm grounding in the core components of live and mediated performance. Students seeking professional careers, preparing for advanced degree programs, training to be educators, or pursuing interdisciplinary studies in the arts participate in contemporary production and critical studies practices encompassing new, modern, and classic works interpreted to confront and illuminate the diverse concerns of contemporary life.

Production is an essential and integral part of the department's educational mission. Students are provided with a variety of opportunities to gain experience and develop creative and collaboration skills both before and behind the scenes. In the selection of dramatic narrative and other works, the department seeks to reflect vital contemporary issues, personal and public, in varied and challenging forms, new and classic, thereby creating a forum for cultural and social concerns. The program actively pursues the development of new works and practice, collaborations with urban arts and educational institutions, and the expansion of cultural exchange.

The School of Theater + Film is an accredited institutional member of the National Association of Schools of Theatre.

The university's urban location enables the School of Theater + Film to provide students with the richest diversity of teaching staff in the studio and the maximum of diverse educational experiences without. The resident faculty are active members of the

region's arts and creative community, as professional practitioners as well as educators. Their work is represented at every major theater company in the area, as well as through other arts organizations including smaller theaters, film units, dance companies, production companies, the media, and educational institutions. They frequently engage their students as assistants on creative projects, and they facilitate student placements as interns and regular employees with a variety of organizations. The associate faculty are of the highest caliber, both as practicing artists and as teachers of their craft.

Graduates of the program have gained admission to both university graduate programs and professional training programs, they have entered the profession directly, they have become teachers and university professors, and they have pursued a range of related professions in the arts, commerce, law, social services and the public sector.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Theater + Film's undergraduate degrees, go to www.pdx.edu/undergraduate-programs.

ADMISSIONS REQUIREMENT

See "Admission requirements (p. 5)" for information on general admission to the University.

THEATER ARTS B.A./B.S.

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 Theater + Film, and World Languages and Literatures (Kabuki).

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:

31 Core Credits

| | | |
|--------|---|---|
| TA 111 | Stagecraft | 3 |
| 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 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 322 | History of Dress I | 4 |
| TA 323 | History of Dress II | 4 |
| TA 330 | Multicultural Theater | 4 |
| TA 369 | Women, Theater, and Society | 4 |
| TA 471 | Theater History: Periods and Topics | 1-4 |
| TA 472 | Theater History: Major Figures | 1-4 |

9 credits of the following:

| | | |
|--------|---|-----|
| TA 134 | Workshop Theater: Scenery, Costume & Lighting Production I | 1 |
| TA 234 | Workshop Theater: Scenery, Costume & Lighting Production II | 1 |
| TA 333 | Workshop Theater: Directing/Stage Management/Dramaturgy | 1 |
| TA 334 | Workshop Theater: Scenery, Costume & Lighting Production 3 | 1-2 |
| TA 335 | Workshop Theater: Management/Publicity | 1 |

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 with at least 12 carrying numbers 300 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.

THEATER ARTS MINOR

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 | 4 |
| TA 305 | Understanding Theater | 4 |
| TA 201 | Script Analysis | 4 |

Four credits chosen from:

| | | |
|--------|-------------------------------------|-----|
| TA 369 | 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 |
| 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.

FILM B.A./B.S.

The Bachelor of Arts/Bachelor of Sciences in Film is designed to offer students the opportunity to major in a diverse film curriculum that prepares them for a variety of careers in visual expression and understanding. Students in the program will study all forms and genres of the moving image, ranging from the silent film era to present day cinema, television, and digital video production. The faculty are committed to providing strong emphasis on written, oral and visual expression and critical thinking, diverse and international perspective, and creative experiences.

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 (28 credits)

| | | |
|------|---------------|---|
| FILM | Film Analysis | 4 |
|------|---------------|---|

| | | | |
|-----|------|---|---|
| 131 | FILM | Advanced Film Analysis | 4 |
| 231 | FILM | Classical Film Theory | 4 |
| 280 | FILM | Film History I: 1894 to the Second World War | 4 |
| 381 | FILM | Film History II: Cinema and Modernism (1946-1970s) | 4 |
| 382 | FILM | Film History III: Contemporary World Cinema (1970s-Present) | 4 |
| 383 | FILM | Contemporary Film Theory | 4 |

Critical and Theoretical Practices (16 credits)

Choice of 16 credits from the following; Max. 8 credits can be taken in FILM 360

| | | |
|----------|---------------------------------|---|
| FILM 257 | Digital Video 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 374 | Topics in Screenwriting | 4 |
| TA 252 | Stage Makeup | 2 |
| TA 311 | Scene Design I | 4 |
| TA 313 | Scene Design II | 3 |
| TA 314 | Lighting Design I | 3 |
| TA 321 | Introduction to Costume Design | 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 |

Historical and Cultural Contexts (12 credits)

Choice of 12 credits from the following, 8 credits must be at the 400 level; Max. 4 credits can be taken in FILM 370

| | | |
|-----------|---|---|
| FILM 370U | Topics: Theater, Media, and Culture | 4 |
| FILM 484 | Anatomy of a Movie I: Product of the Studio Era | 4 |
| FILM 485 | Anatomy of a Movie II: The Independent Film | 4 |
| FILM 486 | Topics in Film and the Moving Image | 4 |
| ArH 291 | History of Animation | 4 |

International Cinemas (4 credits)

| | | |
|----------|---|---|
| FILM 487 | Topics in International Film and the Moving Image | 4 |
|----------|---|---|

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

Additional electives that are offered within the university are listed on the program website

Subtotal: 72

Courses taken under the differentiated 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 major requirements must be graded C or above.

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 or | 4 |
| FILM 135 | Classic Movies | 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 Theater +

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.

DANCE CERTIFICATE

The Dance Certificate provides a general core curriculum in dance without the specialization requirements of a baccalaureate. The certificate prepares individuals for teaching positions in private studios or in educational institutions, if in the latter instance, the individual has a teaching certificate in another field.

REQUIREMENTS

A candidate for the certificate is required to satisfy all University requirements for a baccalaureate degree with an academic major in one of the related field of study offered at PSU. Students interested in simultaneously pursuing K-12 Teacher Preparation should consult the PSU Bulletin for details. The Dance Certificate may be pursued as a postbaccalaureate program. In addition to the requirements for a baccalaureate degree in a selected major, students must complete the following courses or their equivalents:

Required courses:

| | | |
|---------|-------------------------------------|---|
| Mus 101 | Basic Materials of Music | 4 |
| TA 102 | Introduction to Acting | 4 |
| D 196 | Dance Laboratory: Ballet I, II, III | 2 |
| D 350 | Dance Improvisation | 4 |
| D 351 | Dance Composition | 4 |
| D 355 | Dance Production | 4 |
| D 396 | Dance Laboratory: Ballet I, II, III | 2 |

Four credits of the following:

| | | |
|-------|-------------------------------------|---|
| D 193 | Dance Laboratory: Modern I, II, III | 2 |
|-------|-------------------------------------|---|

D 193 must be repeated at least twice to earn four credits.

Four credits selected from the following:

| | | |
|-------|-------------------------------------|---|
| D 195 | Dance Laboratory: Topics I, II, III | 2 |
| D 197 | Dance Laboratory: Jazz I, II, III | 2 |
| D 397 | Dance Laboratory: Jazz I, II, III | 2 |

Four credits of the following:

| | | |
|-------|-------------------------------------|---|
| D 393 | Dance Laboratory: Modern I, II, III | 2 |
|-------|-------------------------------------|---|

D 393 must be repeated at least twice to earn four credits.

Two courses chosen from the following:

| | | |
|--------|--|---|
| D 352 | Dance Choreography | 4 |
| D 362U | Contemporary Dance 1920 to Present | 4 |
| D 366U | Dance in Film: Early Years through the 1940s | 4 |
| D 367U | Dance in Film: 1940s to Present | 4 |

Subtotal: 48

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 certificate requirements must be graded C or above.

At least 12 credits of upper-division Theater Arts courses must be taken in residence at Portland State University.

Total Credit Hours: 48**DANCE MINOR****REQUIREMENTS**

To earn a minor in dance, a student must complete 28 adviser-approved credits in dance to include the following:

Courses

| | | |
|--------|------------------------------------|---|
| D 104 | Dance Appreciation or | 4 |
| D 304 | Dance Appreciation | 4 |
| D 351 | Dance Composition | 4 |
| D 362U | Contemporary Dance 1920 to Present | 4 |

16 Credits of Additional Dance electives (at least 8 upper-division):

| | | |
|--------|-------------------------------------|---|
| TA 102 | Introduction to Acting | 4 |
| TA 147 | Movement for the Actor | 3 |
| TA 248 | Acting I: Process | 4 |
| D 193 | Dance Laboratory: Modern I, II, III | 2 |
| D 196 | Dance Laboratory: Ballet I, II, III | 2 |
| D 197 | Dance Laboratory: Jazz I, II, III | 2 |
| D 350 | Dance Improvisation | 4 |
| D 352 | Dance Choreography | 4 |
| D 393 | Dance Laboratory: Modern I, II, III | 2 |
| D 396 | Dance Laboratory: Ballet I, II, III | 2 |
| D 397 | Dance Laboratory: Jazz I, II, III | 2 |

Subtotal: 28

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department minor requirements, with the exception of TA 104 Dance Appreciation. All courses for the minor must receive a grade of C or above.

At least 12 dance credits must be taken in residence at Portland State University.

DRAMA - SECONDARY TEACHER EDUCATION PROGRAM

Advisor: K. Magaldi

It is crucial that students who wish to teach theater in secondary school be in contact with the School of Theater + Film secondary education advisor as early as possible, so that various options and requirements can be fully explained and a program of study developed.

Graduate 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.

SCHOOL OF BUSINESS ADMINISTRATION

Daniel Connolly, Dean
Cliff Allen, Associate Dean, Graduate Programs
Pamela Tierney, Associate Dean, Faculty And Research

Erica Wagner, Associate Dean,
Undergraduate Programs

Undergraduate Programs Office

240 School of Business Administration
Building, 503-725-3712
<http://www.pdx.edu/sba/>

Graduate Programs Office

540 School of Business Administration
Building, 503-725-8001
<http://www.pdx.edu/gradbusiness/>

- B.A., B.S.—Business Administration
- Minor—Advertising (for graphic design majors), Advertising (for communications majors), Business Administration
- Certificate in International Business Studies - Undergraduate
- Certificate in Food Industry Management—Undergraduate
- Certificate in Athletic & Outdoor Industry - Undergraduate
- Certificate in Entrepreneurship - Undergraduate
- Certificate in Social Innovation and Social Entrepreneurship - Undergraduate
- Postbaccalaureate Certificate in Accounting
- M.B.A.—Master of Business Administration
- M.S.—Master of Science in Financial Analysis
- M.S.—Master of Science in Global Supply Chain Management
- M.B.A. Healthcare— The Healthcare M.B.A.
- M.I.M.—Master of International Management

- MRED —Master of Real Estate Development
- Ph.D.—Participating school in Systems Science Doctoral Program

The undergraduate and graduate programs in business administration are accredited by AACSB—Association to Advance Collegiate Schools of Business. In addition, the accounting program has separate accreditation from the AACSB. AACSB sets standards for business education in terms of curricular content, quality of faculty, and adequacy of facilities.

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 and logistics management. A business minor is available for all non-business majors as is the advertising minor for graphic design and/or communications majors. Certificates in entrepreneurship, food industry management, the athletic and outdoor industry, international business, social innovation and social entrepreneurship are also available. The School of Business offers study abroad opportunities at the undergraduate and graduate levels.

The School of Business offers an Online Business Degree Program. Tailored for the student who works full time, the program allows students to complete their junior and senior years of the business program, two courses per term guaranteed in three years. Students enrolled in the Online Business

Degree Program will complete the full curriculum of standard business courses required for a bachelor's degree in business with an option in Management & Leadership or Supply & Logistics Management. Admission and requirements for this program are similar to the traditional undergraduate program.

Student advising

Undergraduate academic and career advisors are located in 240 SBA. Current information about degree requirements for students in the School of Business Administration is available there. Students should make appointments with their advisor at least once a year to ensure that requirements are being met. For program option planning and career counseling, students may make an appointment with SBA academic and career advisors.

The School of Business Administration Web site, <http://www.pdx.edu/sba/>, contains announcements concerning policies, upcoming activities, scholarships, 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 Administration's undergraduate degrees, go to www.pdx.edu/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 the School of Business Administration (SBA) 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 the School of Business Administration, students must be formally admitted to Portland State University and fill out the SBA opt-In form available on www.pdx.edu/sba.

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 243 | Introduction to Probability and Statistics I | 4 |
| Stat 244 | Introduction to Probability and Statistics II | 4 |
| Comm 220 | Public Speaking | 4 |
| Wr 121 | College Writing or Freshman Inquiry | 4 |

BA 101: (waived for post-baccalaureate students)

BA 205: (waived for post-baccalaureate students)

Stat 243, Stat 244: (for business majors)

*NOTE: Speak to your SBA Advisor for details about statistics course options

Students can submit the SBA opt-in form anytime during the term, it is available online at www.pdx.edu/sba.

Retention 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. In no instance will the period of probation extend beyond three consecutive terms beginning with the first term the student is placed on probation. By the end of the third term of probation, the student must raise the deficient GPA(s) to the required minimum.

Students who are disqualified must reapply to join the SBA if they desire to complete degree requirements for programs in the School of Business Administration. Students may submit an opt-in form to rejoin the SBA once their PSU and PSU SBA GPA have risen above the required 2.50. Business students are limited to only one readmission to the School of Business Administration.

PSU Academic Disqualification

If a student who has been admitted to the School of Business Administration is academically disqualified by the University, that student will automatically lose School of Business Administration admitted status. If a student who has lost admitted status desires to complete degree requirements for programs in the School of Business Administration, that student must reapply. At the time of reapplication the student must meet the required 2.50 PSU and PSU School of Business Administration 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 Administration. A minimum of 180 credits is required for graduation.

Prerequisite policy

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 SBA 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 students will need to meet the requirements for their major. In addition, they should meet with their academic advisor in the School of Business to determine if they have met the Bachelor of Arts or Bachelor of Science requirements. They may also want to meet with an advisor to determine if any of their previous course work counts towards the business major requirements.

REQUIREMENTS

Business administration students must complete the following courses with a C- or better:

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 | 4 |
| BA 303 | Business Finance | 4 |
| BA 311 | Marketing Management | 4 |
| BA 325 | Competing with Information Technology | 4 |
| BA 339 | Operations and Quality Management | 4 |
| BA 385 | Business Environment | 4 |
| BA 495 | Business Strategy | 6 |

Subtotal: 50

Business specialization options

(see descriptions below)

Subtotal: 20-36

BUSINESS OPTIONS

The School of Business Administration offers options for those students seeking specialization in a subject area. Each student must select one of these options and complete the required courses with a C- or better. Option requirements are satisfied by taking 20 to 36 upper-division credits beyond the required business core. The courses specified to satisfy the option 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 | 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 and Not-for-Profit 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 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 an option will also be required to take:

| | | |
|---------|--|---|
| Phl 308 | Elementary Ethics | 4 |
| or | | |
| Phl 309 | 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 340 | 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

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 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 do a double option in management & leadership and human resource management cannot apply more than eight common credits to each option.

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: a. within the management area at the 400 level, or b. from an approved list of courses.

Note: Students who wish to do a double option in management and leadership and human resource management cannot apply more than eight common credits to each option.

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.

Marketing innovation and technology track:

| | | |
|----------|-----------------------------------|---|
| Mktg 450 | Product Innovation and Management | 4 |
| Mktg 461 | eMarketing | 4 |
| Mktg 463 | Service Innovation | 4 |

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 |
|--------------------------------------|---|

Subtotal: 28

Supply and Logistics Management

Objective: to provide students with an interdisciplinary foundation in supply and logistics management in preparation for careers in purchasing, industrial distribution, logistics, transportation, and operations management.

| | | |
|----------|--|---|
| ISQA 429 | Transportation and Logistics Management | 4 |
| ISQA 439 | Purchasing and Supply Chain Management | 4 |
| ISQA 479 | Integrated Supply and Logistics Management | 4 |

Three of the following electives as approved by supply and logistics management faculty (at least one must be ISQA from below):

| | | |
|----------|---------------------------------------|---|
| ISQA 430 | Industrial Transportation and Freight | 4 |
| ISQA 431 | Transportation Regulation | 4 |
| ISQA | Governmental | 4 |

| | | |
|----------|---|-----|
| 440 | Procurement | |
| ISQA 449 | Process Control and Improvement | 4 |
| ISQA 450 | Project Management | 4 |
| ISQA 451 | Business Forecasting | 4 |
| ISQA 454 | Supply and Logistics Negotiations | 4 |
| ISQA 458 | Purchasing and Logistics within the Food Industry | 4 |
| ISQA 459 | Production Planning and Control | 4 |
| ISQA 410 | Selected Topics | 1-6 |
| | Other electives as approved by Supply and Logistics faculty | |

Subtotal: 21-24

SBA Honors Track

The SBA Honors Track is a two year program with approximately 50 undergraduate business students (25 accepted each year) who are admitted to the SBA. 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 385, and BA 495
- Perspectives in Leadership
- Required one-day workshop each term (excluding summer term)
- Advanced Business Communications Workshop
- Executive Days in Residence
- Honors Book Group
- Advanced Excel Workshop

For admission to the honors track students must be degree-seeking undergraduates who are admitted to the SBA 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 Administration 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) 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 306 | Essentials of Finance for Non-Business Majors | 4 |
| BA 316 | Essentials of Marketing for Non-Business Majors | 4 |
| BA 326 | Essentials of Management for Non-Business Majors | 4 |
| BA 336 | Essentials of Information Technology for Non-Business Majors | 4 |
| BA 346 | 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

Space is limited in the advertising management minor. Interested students should contact the School of Business Administration Undergraduate Programs Office. Courses in the minor include:

Courses

| | | |
|----------|---|---|
| BA 311 | Marketing Management | 4 |
| Mktg 340 | 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 (SBA) and four credit hours can be a communication or SBA elective. All courses must be graded, the minimum passing grade

for the Advertising Management Minor courses is a C-.

Five required courses:

| | | |
|----------|-----------------------|---|
| BA 311 | Marketing Management | 4 |
| Mktg 340 | Advertising | 4 |
| Mktg 441 | Media Strategy | 4 |
| Mktg 442 | Creative Strategy | 4 |
| Mktg 443 | Advertising Campaigns | 4 |

Mktg 340 is a prerequisite for all other MKTG courses and should be taken early.

Mktg 441 & Mktg 442 are prerequisites for Mktg 443.

Plus one Comm or SBA elective from the following:

| | | |
|----------|-----------------------------------|---|
| Mktg 341 | Public Relations | 4 |
| Mktg 448 | Digital Media Planning and Design | 4 |

| | | |
|----------|----------------|---|
| Comm 312 | Media Literacy | 4 |
|----------|----------------|---|

| | | |
|----------|------------|---|
| Comm 314 | Persuasion | 4 |
|----------|------------|---|

| | | |
|----------|----------------------------------|---|
| Comm 341 | Introduction to Public Relations | 4 |
|----------|----------------------------------|---|

| | | |
|----------|-------------------------------|---|
| Comm 389 | 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

Note: Students may take either one of the Public Relations courses offered by the two programs but not both as elective credit for this minor.

Certificates

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.

In addition, students must complete all certificate requirements specified below:

REQUIREMENTS

Required Courses

| | | |
|---------------------|---|---|
| Mktg 338 | 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 | | |

Graduate programs

The School of Business Administration offers six programs leading to master's degrees. The School also participates in the System Science Doctoral Program.

ADMISSIONS AND APPLICATION REQUIREMENTS

Admission requirements vary by program. See the website for admission criteria.

The entire application process can take up to 8 weeks, 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.

Dates for Fall Admission

Application and all supporting documents:

- November 1—Early Admission Decisions
- February 1—Scholarship Deadline
- May 1—Priority Admission
- August 1—Space Available Admission

Dates for Spring Admission

Currently, the only graduate business programs that admit in the Spring are the part-time MRED program and the MSGSCM program. Applications and all supporting documents:

- January 15 – Spring deadline (MRED and MSGSCM)

Pathway Program

MSFA

The Accounting Bachelors plus Master of Science in Financial Analysis Pathway Program allows undergraduate business students majoring in accounting at Portland State to pursue their master's degree in a more seamless and cost effective manner. To be admitted to this program the student must complete the following:

- Admitted to the School of Business Administration at a Junior standing or higher
- Completion of at least 12 credit hours of upper division (300/400) accounting courses, with 8 of the 12 credits being ACTG 381 and 382
- Cumulative GPA of 3.3 or higher
- Upper division Accounting courses GPA of 3.4 or higher

DEGREE PREREQUISITE REQUIREMENTS

Financial Analysis Master of Science (MSFA)

The MSFA degree is for students who have already completed undergraduate accounting coursework. Because this program is only 52 credits, it requires that applicants have the necessary business background that an undergraduate degree in business, economics or Post-Baccalaureate Accounting Certificate (PBAC) would provide prior to starting the program. Applicants are also expected to be proficient in computer applications and spreadsheet skills.

All applicants need to complete the following coursework prior to admission:

- Managerial and Financial Accounting
- Micro and Macro Economics
- Statistics
- Business Finance
- Intermediate Accounting Series

See website for details.

Master of International Management (MIM)

In addition to meeting the requirements for PSU and the School of Business

Administration, we also require applicants to complete the equivalent of the following prerequisite courses with a B- or better: Managerial and Financial Accounting, Micro and Macro Economics, Business Finance, Statistics

The admissions committee evaluates each student's application to determine which requirements (if any) are required. Applicants can complete these requirements through the MIM Business Foundations Lab which is a PSU summer program (August-September) developed for students with limited (or no) academic business background.

Exceptions to the above will be considered on a case-by-case basis by the Master of International Management Admissions Committee.

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 Leadership courses that are integrated based on 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 will take most elective coursework 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. Our program is built on three key ideas that reflect the values of our Portland community: Leadership, Innovation, and Sustainability. The coursework in the MBA program is grouped into five segments for a total of 78 credits: Foundations of Competitiveness, The Value Chain of Business, Applied Leadership, International Experience, and Electives.

FOUNDATIONS OF COMPETITIVENESS (18 CREDITS)

The Foundations of Competitiveness segment provides students with an integrated understanding of the global and competitive challenges facing business today. The roles of innovation, creativity, global awareness, ethics and sustainability are emphasized.

| | | | |
|----------------|---|--|---|
| Courses | | | |
| Mktg 511 | Pioneering Innovation | | 4 |
| Fin 511 | Economics and Sustainability of the Firm I | | 2 |
| Fin 512 | Economics and Sustainability of the Firm II | | 4 |
| Mgmt 513 | Law Ethics and Stewardship | | 4 |
| Mgmt 511 | Foundations of Strategy | | 2 |
| Mgmt 514 | Integrated Strategy | | 2 |

THE VALUE CHAIN OF BUSINESS (29 CREDITS)

The Value Chain segment builds an integrated foundation of coursework and provides in-depth knowledge and applied skills related to accounting, information systems, finance, management, marketing, and operations.

| | | | |
|----------------|-----------------------------------|--|---|
| Courses | | | |
| Actg 511 | Financial Accounting | | 4 |
| Actg 512 | Managerial Accounting and Control | | 2 |
| Mktg 512 | Marketing Strategy | | 4 |
| Mgmt 512 | Organizational Management | | 4 |
| Fin 513 | Financial Management | | 4 |
| ISQA | Sustainable Operations | | 4 |

| | | |
|----------|---|---|
| 511 | Management Business Decision Tools for Managers | 2 |
| ISQA 513 | | |
| ISQA 514 | Survey Research Techniques | 1 |
| ISQA 515 | or Series and Forecasting Techniques | 1 |
| Mgmt 515 | Information Systems and Technology in Organizations | 4 |

APPLIED LEADERSHIP (15 CREDITS)

In the MBA program, students' 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 or an entrepreneurial project. The capstone requires a total of six credits.

| | | | |
|----------------|---------------------------------------|--|-----|
| 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 | | 2-6 |
| BA 526 | MBA International Experience | | 4 |

ELECTIVES (16 CREDITS)

The MBA program offers a variety of electives that enable students to pursue their particular interests. Electives are offered across many disciplines, including accounting, entrepreneurship, finance, marketing, social enterprise, and supply chain management.

Dual Degree

Admitted students in good standing may apply for dual MBA/MS GSCM degrees. Applications must be received two terms before graduation. For details contact the academic director.

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) 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: Actg 511, Actg 512, Fin 511, Fin 512, ISQA 511, ISQA 513, ISQA 514 or ISQA 515, Mgmt 512, Mgmt 513. 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 or arrange to take the waiver exam 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.

INTERNATIONAL EXPERIENCE

A highlight of our program is the International 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 or a local experience 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.

THE 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 only

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 become effective managers in healthcare organizations. Specifically, graduates will be able to:

- Manage healthcare organizations in a professional, business-like fashion in order to enhance compassionate care
- Understand the underlying processes and systems of health care organizations in order to improve care delivery and management practices
- Manage cross-professional teams and lead profound change in healthcare organizations.

The curriculum incorporates the Institute of Medicine's six criteria (safe, effective, efficient, patient-centered, timely, efficient, and equitable) for a 21st Century healthcare system. It consists of 72 credits of courses from these thematic categories:

Understanding the Healthcare Industry, Leadership and Management in Healthcare, Financial Management in Healthcare, Operations and Quality in Healthcare Marketing, Business Planning, and Strategy Application Projects and Capstone. Healthcare is thoroughly integrated throughout the curriculum, and guest speakers, cases, and examples will be primarily from healthcare. However, where appropriate, attention will be called to best practices in other industries that could be beneficial in healthcare.

FINANCIAL ANALYSIS M.S. (MSFA)

The MSFA is a 52-quarter-credit-hour program aimed at individuals who seek graduate-level specialization in financial analysis, but who do not wish to pursue an MBA. 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.

Students may take courses on a full-time or part-time schedule. Most classes are in the evening. MSFA students are admitted fall term only.

REQUIREMENTS

Successful completion of the MSFA requires 28 credits of core courses, 16 credits in a specialization track, and 8 credits of electives.

Core (28 credits)

| | | |
|----------|---|-----|
| Actg 553 | Financial Statement Analysis | 4 |
| Actg 560 | Professional Ethics and the Public Interest | 2 |
| BA 522 | Communications for Leaders | 1 |
| BA 523 | Executive Perspectives on Leadership | 1 |
| BA 525 | Capstone Consulting Project | 2-6 |
| Fin 545 | Hedging and Risk Management | 4 |
| Fin 551 | Financial Management for Financial Analysts | 4 |
| Fin 553 | Valuation and Analysis | 4 |
| Mgmt 511 | Foundations of Strategy | 2 |

Specialization Tracks (16 credits)

(Choose One)

Corporate

| | | |
|----------|--|---|
| Actg 552 | Strategic Cost Management | 4 |
| Fin 511 | Economics and Sustainability of the Firm I | 2 |
| Fin 531 | Financial Institutions | 2 |
| Fin 556S | International Financial Management | 4 |
| Fin 565 | Corporate Financial Strategies | 4 |

Investments

| | | |
|---------|---|---|
| Fin 511 | Economics and Sustainability of the Firm I | 2 |
| Fin 531 | Financial Institutions | 2 |
| Fin 552 | Investments | 4 |
| Fin 554 | Alternative Investments | 2 |
| Fin 573 | Investment Analysis and Portfolio Management | 4 |
| Fin 574 | Portfolio Management: Issues and Performance Assessment | 2 |

Public Accounting

| | | |
|----------|---|---|
| Actg 525 | Professional Accounting Research | 4 |
| Actg 527 | Advanced Tax Topics | 4 |
| Actg 565 | Current Topics in Global Financial Accounting | 4 |
| Actg 593 | Advanced Auditing | 4 |

Electives (8 credits)

See MSFA program website for a list of approved electives. Other courses, including study abroad, can qualify as elective credit if pre-approved by the program 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; understand and utilize sustainability-based initiatives, including closed-loop processes, to improve 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 goal of the MS GSCM is to prepare global leaders in developing strategies that support markets and innovation in a sustainable and efficient manner. In the MS GSCM program students will gain knowledge in how supply chains are integrated into a full spectrum of product and service strategies including; new product innovation, markets and channels, sourcing, lean operations, project management, logistics, analytics, and sustainable end-of-life closed loop processes.

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 | Global Case Studies in | 4 |
|------|------------------------|---|

| | | |
|--------------|--|---|
| 515 | Supply Chain Management | |
| 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 |
| GSCM XXX | Elective | 4 |
| Subtotal: 52 | | |

Dual Degree

Admitted students in good standing may apply for dual MS GSCM and MBA degrees. Applications must be received two terms before graduate. For details contact the academic director.

MASTER OF INTERNATIONAL MANAGEMENT (MIM)

A PSU MIM degree is for those who want to be leaders in the international business arena. 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 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 75-credit MIM program is offered in a 15-month, full-time format and is an intense learning experience reflective of international business today. The MIM degree focuses on Asian business and includes a three-week field-study trip to Asia and an international business consulting 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.

Specialization Options

To meet the growing corporate demand for specialized skills, the MIM offers specialization tracks. Students can acquire in-depth knowledge in key management areas. Furthermore, students will produce the international business project in their chosen area of specialization. See the website for descriptions of specializations.

MIM Requirements

Transfer Credits and Course Waivers

No transfer credits will be accepted nor will there be any course substitutions or 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 (56 credits)

| | | |
|---------|---|---|
| MIM 506 | International Business Research Project | 4 |
| MIM 507 | Age of Pacific Lecture Series | 1 |
| MIM 509 | Global Business Immersion | 1 |
| MIM 512 | Global Leadership and Ethics | 2 |
| MIM 513 | Pacific Rim Economies, Trade, and Financial Markets | 3 |
| MIM 514 | Global Managerial and Cost Accounting | 2 |
| MIM | Global Contemporary | 4 |

| | | |
|-----|--------------------------|---|
| 515 | Marketing | |
| MIM | Contemporary Pacific | 4 |
| 516 | Rim and World Affairs | |
| MIM | Accounting for Global | 4 |
| 517 | Enterprises | |
| MIM | Global Communications | 2 |
| 522 | | |
| MIM | Intercultural Competence | 1 |
| 527 | and Communications I | |
| MIM | Intercultural Competence | 1 |
| 528 | and Communications II | |
| MIM | Global Marketing | 3 |
| 535 | Research and Innovation | |
| MIM | Global Comparative | 4 |
| 558 | Operations Management | |
| MIM | Global Human Resource | 4 |
| 564 | Management | |
| MIM | Managing Information | 2 |
| 568 | Technology Globally | |
| MIM | International Corporate | 4 |
| 574 | Finance and Investment | |
| MIM | International Business | 3 |
| 577 | Negotiations | |
| MIM | Asia Field Study | 3 |
| 579 | | |
| MIM | Global Business Strategy | 2 |
| 588 | I | |
| MIM | Global Business Strategy | 2 |
| 589 | II | |

Language (7 credits)

| | | |
|---------|------------------|---|
| MIM 505 | Foreign Language | 7 |
|---------|------------------|---|

Specialization Courses (12 graduate credits)

See Web site for course descriptions of Specialization courses.

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 Toulan 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 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.

GRADUATE SCHOOL OF EDUCATION

Randy Hitz, Dean
 Micki M. Caskey, 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 National Council for Accreditation of Teacher Education 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 or continuing licenses should consult with an adviser or contact the Graduate School of Education Licensure Office, 503-725-4758.

The school welcomes all students to join in helping us reach our mission: “preparing professionals to meet our diverse communities’ lifelong educational needs.” 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:

- to work in diverse settings
- to promote inclusive and therapeutic environments

Research-Based Practices and Professional Standards

- to critically analyze and implement research-based practices
- to demonstrate appropriate professional knowledge, skills, and dispositions

Impact on Learning and Development

- 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

- 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. 191)” section in this catalog for information regarding recommended preparatory programs for elementary and secondary teachers.

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. 25). 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. 40). 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.

**EARLY CHILDHOOD EDUCATION
M.A./M.S.**

The focus of the program is to achieve the goal of educating professionals in early childhood to support young children of all ability levels. In the field of early childhood today, personnel are working with children of all ability levels. As a result, knowledge of inclusive education and associated practices are necessary to provide the recommended services 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 |
| Subtotal: 27 | | |

CONSTRUCTIVISM IN EARLY CHILDHOOD

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 or | 3 |
| CI 572 | Language and Literacy in Early Childhood Education | 3 |
| Subtotal: 18 | | |

EARLY CHILDHOOD SPECIAL EDUCATION

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 Intervention/Early Childhood Special Education) | 3 |
| SpEd 586 | Instructional Strategies II: EI/SE | 3 |
| Subtotal: 18 | | |

INFANT TODDLER MENTAL HEALTH

Courses

| | | |
|----------|--|-----|
| SpEd 510 | Introduction to Infant Toddler Mental Health or | 3 |
| | 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 | Assessment Methods and | 3 |

| | | |
|--------------|---|---|
| 594 | Classification in Infant Mental Health | |
| 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

EDUCATION M.ED.

The M.Ed. is earned by students who have completed PSU's Graduate Teacher Education Program (p. 97) (GTEP) or Secondary Dual Educator Program (p. 98) (SDEP). Graduate level students in the Bilingual Teacher Pathway (p. 98) (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.

EDUCATION M.A./M.S.

The master's degrees in the Graduate School of Education are designed for thoughtful and caring practitioners who have the knowledge, skills, and desire to examine critically educational practices while working to improve them in ways that are conceptually sound, ethically responsible, and culturally responsive.

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 (MS+IAL).

The purpose of these programs is to prepare educational leaders who are able to respond positively, creatively, and proactively to the increasing diversity characterizing our metropolitan communities and to view diversity as a foundation upon which to build excellent educational programs for all learners.

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). Themes in Postsecondary, Adult, and Continuing Education include: Adult Learning and Development; Higher Education and Organizational Change; Student Services; Training and Development; and Service-Learning.

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 | 4 |
| or | | |
| 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

<http://www.pdx.edu/elp/postsecondary-adult-and-continuing-education-pace-specialization>

MA/MS Leadership for Sustainability Education

<http://www.pdx.edu/elp/leadership-for-sustainability-education-lse-specialization>

Educational Administration:

- Initial Administrative Licensure
 - MA/MS+Initial Administrative Licensure
 - Continuing Administrative Licensure
- <http://www.pdx.edu/elp/education-administration-licensure-specialization>

Graduate Certificates:

- Teaching Adult Learners (p. 96)
- Student Affairs in Higher Education (p. 96)
- Service-Learning and Community-Based Learning in Higher Education (p. 96)

OPTION II: CURRICULUM AND INSTRUCTION

The M.A./M.S. degree in curriculum and instruction emphasizes professional education. The purpose of the program is to prepare experienced teachers and others interested in education to be teacher leaders, create curricula, and respond positively to our increasingly diverse schools and society. Students can complete the electives in a variety of ways: working toward ESOL, Reading, or Library/Media endorsements, focusing on one of the department specializations, or choosing from an array of graduate level classes.

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 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.

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 |

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.

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 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 facilities. 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 and life-style planning, 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 unless students choose to proceed more slowly.

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. 97)"). Courses numbered 808 are not allowed.

Core courses (56 credits)
 Coun Internship 12

| | | | |
|------|---|---|--|
| 504 | | | |
| Coun | Practicum: Group Counseling | 1 | |
| 509 | | | |
| Coun | Practicum: Counseling | 6 | |
| 509 | | | |
| Coun | Practicum: Peer Supervision | 2 | |
| 509 | | | |
| Coun | Foundations of Addictions Counseling | 3 | |
| 531 | | | |
| Coun | Interpersonal Relations II | 3 | |
| 543 | | | |
| Coun | Theories and Interventions I | 3 | |
| 551 | | | |
| Coun | Appraisal Instruments | 1 | |
| 566 | | | |
| Coun | Using Tests in Counseling | 3 | |
| 567 | | | |
| Coun | Career and Lifestyle Planning | 3 | |
| 568 | | | |
| Coun | Developmental Foundations of Counseling | 3 | |
| 569 | | | |
| Coun | Ethical and Legal Issues in Counseling | 3 | |
| 570 | | | |
| Coun | Group Counseling | 3 | |
| 571 | | | |
| Coun | Supervision | 1 | |
| 580 | | | |
| Coun | Multicultural Perspectives in Counseling | 3 | |
| 581 | | | |
| Coun | Research and Program Evaluation in Counseling | 3 | |
| 582 | | | |
| Coun | Diagnosis and Treatment Planning I | 3 | |
| 585 | | | |

Clinical Mental Health Counseling Specialization

The clinical mental health counseling specialization prepares individuals to work as counselors in private and public clinical mental health agencies, community colleges, universities, employee assistance programs or private practice settings. Prior experience in a helping relationship is recommended for individuals pursuing this specialization. Depending upon one's choice of setting, the counselor should prepare to offer diagnostic and intervention services to the populations seeking counseling. The program of study leading to an M.A./M.S. in education with a clinical mental health counseling specialization must include the following 90 credits:

Courses

| | | |
|------|---|----|
| Coun | Core coursework | 56 |
| 552 | Theories and Interventions II | 3 |
| Coun | Advanced Therapeutic Strategies | 3 |
| 553 | | |
| Coun | Foundations of Couples, Marriage, and Family Counseling | 3 |
| 575 | | |
| Coun | Psychopharmacology and Mental Illness | 3 |
| 586 | | |

| | | |
|------|--|---------------------|
| Coun | Foundations of Mental Health Services | 3 |
| 587 | | |
| Coun | Diagnosis and Treatment Planning II | 3 |
| 588 | | |
| Coun | Consultation: Theory and Practice | 2 |
| 544 | | |
| Coun | Grief and Loss | 2 |
| 546 | | |
| Coun | Systemic Perspectives on Human Sexuality | 3 |
| 572 | | |
| Coun | Family Therapy | 3 |
| 577 | or | |
| Coun | Couples Therapy | 3 |
| 578 | | |
| Coun | Case Management | 3 |
| 593 | | |
| | Electives | 3 |
| | | Subtotal: 90 |

Clinical Rehabilitation Counseling Specialization

The clinical rehabilitation counseling specialization is currently accredited by CORE and is pursuing CACREP/CORE accreditation for clinical rehabilitation/clinical mental health counseling. 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 on the development of effective interpersonal counseling skills, career development and vocational services, and psychosocial 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 specialization must include the following 90 credits:

Courses

| | | |
|------|---|----|
| Coun | Core coursework | 56 |
| 552 | Theories and Interventions II | 3 |
| Coun | Foundations of Couples, Marriage, and Family Counseling | 3 |
| 575 | | |
| Coun | Psychopharmacology and Mental Illness | 3 |
| 586 | | |
| Coun | Foundations of Mental Health Services | 3 |
| 587 | | |
| Coun | Diagnosis and Treatment Planning II | 3 |
| 588 | | |
| Coun | Foundation of Rehabilitation Counseling | 3 |
| 590 | | |
| Coun | Medical Aspects of | 3 |

| | | |
|------|---------------------------|---|
| 591 | Disability | |
| Coun | Psychosocial Aspects of | 3 |
| 592 | Disability | |
| Coun | Case Management | 3 |
| 593 | | |
| Coun | Occupational | 3 |
| 594 | Analysis/Vocational | |
| | Evaluation | |
| Coun | Contemporary Issues and | 3 |
| 595 | Applications in | |
| | Rehabilitation Counseling | |
| | Elective | 1 |

Subtotal: 90

Marital, Couple, and Family Counseling Specialization

The marital, couple, and family counseling specialization prepares individuals to work in mental health centers, community agencies, and other settings in which counselors are expected to assist clients presenting with couples, family, or relationship issues. Emphasis is placed on teaching counselors systemic assessment and intervention in the counseling process. The program of study leading to an M.A. or M.S. in education with the marital, couple, and family specialization requires the completion of the following 90 credits:

Courses

| | | |
|------|--------------------------|----|
| | Core coursework | 56 |
| Coun | Theories and | 3 |
| 552 | Interventions II | |
| Coun | Systemic Perspectives on | 3 |
| 572 | Human Sexuality | |
| Coun | Contemporary Couples, | 3 |
| 573 | Marriage, and Family | |
| | Systems | |
| Coun | Family Life Cycle and | 3 |
| 574 | Transitions | |
| Coun | Foundations of Couples, | 3 |
| 575 | Marriage, and Family | |
| | Counseling | |
| Coun | Family Therapy | 3 |
| 577 | | |
| Coun | Couples Therapy | 3 |
| 578 | | |
| Coun | Advanced Systemic | 3 |
| 579 | Interventions: Couples | |
| | and Families | |
| Coun | Counseling Children and | 3 |
| 555 | Youth | |
| Coun | Diagnosis and Treatment | 3 |
| 588 | Planning II | |
| Coun | Consultation: Theory | 2 |
| 544 | and Practice | |
| Coun | Grief and Loss | 2 |
| 546 | | |

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 | 0 |
| | (Track I, 0 cr.; Track | or |
| | II, 6 cr.) | 6 |
| Coun 527 | Counseling Individuals | 3 |
| | with Diverse Needs | |
| Coun 545 | Youth at Risk | 3 |
| Coun 546 | Grief and Loss | 2 |
| Coun 547 | Legal & Ethical Issues | 1 |
| | in School Counseling | |
| Coun 555 | Counseling Children | 3 |
| | and Youth | |
| Coun 575 | Foundations of | 3 |
| | Couples, Marriage, and | |
| | Family Counseling | |
| Coun 576 | Parents, Families, and | 3 |
| | Communities in | |
| | Schools | |
| Coun 589 | Action Research in | 5 |
| | Counseling | |
| Coun 596 | Foundations of School | 3 |
| | Counseling | |
| COUN | Electives (Track I, 8 | 2 |
| Electives | cr.; Track II, 2 cr.) | 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 | 30- |
| | courses (from licensure | 36 |
| | program or electives) | |
| SpEd 596 | Topics in Special | 3 |
| | Education Research | |
| SpEd 597 | Topics in Special | 3 |
| | Education Issues and | |
| | Practices | |

A combination of the following:

| | | |
|----------|-----------------|-----|
| SpEd 503 | Thesis | 6-9 |
| | or | |
| 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 | 30- |
| | (from licensure program | 36 |
| | or electives) | |

Option 1:

| | | |
|----------|----------------------|---|
| SpEd 596 | Topics in Special | 3 |
| | Education Research | |
| SpEd 597 | Topics in Special | 3 |
| | Education Issues and | |

| | | |
|--|---|-----|
| | Practices | |
| A combination of the following: | | |
| SpEd 503 | Thesis | 6-9 |
| | or | |
| 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: MEDIA/LIBRARY

Not accepting applications or students at this time.

The PSU program in library media focuses on the preparation of the school library media specialist for professional positions in K-12 school libraries. The program incorporates all of the coursework that is part of the school library endorsement plus a 16-credit core of studies representing research and evaluation, human relations, and other current topics that apply to the school library field. Students work closely with an adviser to plan a sequence of courses that meet program requirements and draw on their own specific areas of interest.

The program of study leading to an M.A. or M.S. in library media requires the completion of the following credits:

| | | |
|----------------|---|---|
| Courses | | |
| Lib 509 | Initial 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- | 3 |

| | | |
|---------|---|---|
| | 12 | |
| Lib 548 | Cataloging and Organization of School Library Collections | 3 |
| Lib 561 | School Library Practicum: Elementary | 3 |
| Lib 562 | School Library Practicum: Secondary | 3 |
| Lib 573 | Advanced Methods and Procedures in School Library/Media Centers | 3 |
| Lib 574 | Research Strategies for Library Media Specialists | 3 |
| Lib 575 | Directed Field Experience | 3 |
| Lib 576 | Planning and Evaluation of Library Media Programs | 3 |
| | Elective | 4 |

In consultation with the adviser, students must complete the course requirements to complete the requirements for the master's degree, and take a comprehensive examination. The thesis requires an oral examination in addition to the written product. Courses numbered 808 are not allowed. For additional information, see www.pdx.edu/education/library-media-masters-degree.

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. Early in the program the student and adviser jointly develop an individual program of study, approved by the doctoral program coordinator. Students must either satisfy degree requirements in place at the time of admission or, at the student’s option, may elect to apply requirements adopted after admission. 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 (26-36 credits)

Students will complete a minimum of 26 hours of coursework in the following specializations:

- Administration (PreK-12)
- Curriculum and Instruction
- Postsecondary Education
- Special and Counselor Education Courses selected in the specialization must be approved by the student’s advisor.

Courses selected in the specialization must be approved by the student’s advisor.

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

A series of six 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 (18 credits).

DEGREE REQUIREMENTS

Addictions Counseling Certificate

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).

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 |

Subtotal: 19

Total Credit Hours: 19

CHILDREN'S AND YOUNG ADULT LITERATURE CERTIFICATE

Not admitting students at this time.

Students in this program explore contemporary and multicultural literature, authors, illustrators and genres with a focus on selecting and evaluating quality literature for children and young adults. Students also gain skills for integrating literature into the K-12 school curricula and programs. This program is designed for educators looking for professional development opportunities as well as staff in public libraries, especially those working in children and young adult services (16 credits).

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 |
| | | Subtotal: 17 |

Coun 520: [Collaborative Partnerships to Support Infants and Toddlers](#); 3 credits required.

Subtotal: 20

Total Credit Hours: 20

MARITAL COUPLE AND FAMILY COUNSELING CERTIFICATE

A graduate certificate to develop the knowledge base and skills vital to helping clients with couples and family concerns. Working with couples and families is very different from working with individuals. The dynamics of the relationships are complex and require a systems approach to understanding and intervening. Many traditional mental health graduate programs do not address these issues and special training is needed.

REQUIRED COURSES

The following seven courses are required:

| | | |
|----------|---|---|
| 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 |

Subtotal: 21

This program is intended as a post-master's certificate designed for individuals with clinical master's degrees who want to specialize in couple and family therapy.

SERVICE-LEARNING AND COMMUNITY BASED LEARNING IN POSTSECONDARY EDUCATION CERTIFICATE

Provides sound philosophical, theoretical, and experiential preparation in service-learning and community engagement for those who teach, coordinate, and/or research learning through community involvement with college students (18 credits).

REQUIRED COURSES

Program of Study

| | | |
|---------|---|---|
| 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

| | | |
|---------|-----------------------|---|
| ELP 506 | Culminating Project | 2 |
| ELP 509 | Culminating Practicum | 2 |

Elective Courses (choose one)

Any ELP course 511-599 can count as an elective. Refer to the PACE Planning and

Course 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

| | | |
|---------|---|---|
| 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

| | | |
|---------|-----------------------|---|
| ELP 506 | Culminating Project | 2 |
| ELP 509 | Culminating Practicum | 2 |

Elective Courses (choose one)

Any ELP course 511-599 can count as an elective. Refer to the PACE Planning and Course 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

| | | |
|---------|--|---|
| ELP 520 | Developmental Perspectives on Adult Learning | 4 |
| ELP 521 | Adult Learning and Motivation | 4 |
| ELP 522 | Teaching Diverse Adult Learners | 4 |

Culminating Experience

| | | |
|---------|-----------------------|---|
| ELP 506 | Culminating Project | 2 |
| ELP 509 | Culminating Practicum | 2 |

Elective Courses (choose one)

Any ELP course 511-599 can count as an elective. Refer to the PACE Planning and Course 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).

DEGREE REQUIREMENTS

Required Courses

| | | |
|---------|--|---|
| ELP 529 | Principles of Training and Development | 3 |
| ELP 530 | Course Design and Evaluation | 4 |
| ELP 584 | Strategies for eLearning | 3 |

Specialization Courses

Training

| | | |
|---------|-------------------------------|---|
| ELP 532 | Training Methods | 3 |
| ELP 539 | Developing Training Materials | 3 |

eLearning

| | | |
|---------|--------------------------------|---|
| ELP 544 | eLearning Instructional Design | 3 |
| ELP 545 | Developing eLearning | 4 |

Recommended Elective Courses

| | | |
|---------|--|---|
| ELP 508 | Project Management for Instructional Design Workshop | 1 |
| ELP 508 | Change Agency Workshop | 1 |
| ELP 508 | Social Media and Informal Learning Workshop | 1 |
| ELP 508 | Facilitative Coaching Workshop | 1 |

ELP 511 - ELP 599: Any course in this range may count as an elective.

Culminating Experience

| | | |
|--------------|---------------------|---|
| ELP 506 | Culminating Project | 2 |
| ELP 509 | Practicum | 2 |
| 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.

GRADUATE TEACHER EDUCATION PROGRAM

The Graduate School of Education offers two licensure programs, one in elementary and one in secondary, that also include a Master's degree. This program is designed for students who wish to teach in public schools and is 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 Program (GTEP), and Secondary Dual Educator Program (SDEP). Graduate level students in the Bilingual Teacher Pathway (BTP) Program may earn the M.Ed. with the completion of ITP 551 Research and Classroom Inquiry.

PROGRAM REQUIREMENTS

Early childhood and elementary

| | | |
|---------|--|------|
| CI 510 | Experimental Course | 1-15 |
| ITP 514 | Educating for Equity and Social Justice | 3 |
| CI 515 | Developing Geometric Thinking and Concepts | 3 |
| ITP 535 | Cultivating Responsive Elementary Classrooms | 3 |
| ITP 536 | Learning and | 3 |

| | | |
|----------------|--|-----|
| | Development | |
| ITP 538 | Integrated Methods and Curriculum Design | 6 |
| ITP 539 | Elementary Mathematics Methods | 3 |
| ITP 540 | Foundations of Literacy | 3 |
| ITP 541 | Literacies in the Elementary Classroom | 4 |
| ITP 542 | Integrated Elementary Science Methods | 2 |
| ITP 543 | Professional Collaboration in Elementary Education | 1-3 |
| ITP 544 | Clinical Support for Elementary Teachers | 3 |
| ITP 545 or 548 | Student Teaching I | 3* |
| ITP 546 or 549 | Student Teaching II | 6* |
| ITP 547 or 550 | Student Teaching III | 12* |
| Ed 518 | Inclusive Elementary Classrooms | 2 |

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 | 1-9 |
| ITP 511 | Classroom Management for Student Success | 3 |
| ITP 512 | Learning and the Learner | 1-3 |
| 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 or | 3 |
| ITP 517 | 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, business, chemistry, drama, 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 (also pre-K to grade 8). Faculty from both curriculum and instruction and special education 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

| | | |
|----------|---|-----|
| Ed 533 | Literacy Methods for the Inclusive Classroom: I | 3 |
| ITP 535 | Cultivating Responsive Elementary Classrooms | 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 521 | Behavior Management in the Classroom | 3 |
| ITP 539 | Elementary Mathematics Methods | 3 |
| Ed 535 | Classroom Based | 2 |

| | | |
|---------------------|--|------|
| Ed 531 | Assessment for the Inclusive Educator 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 |
| Ed 525 | Student Teaching | 6-15 |
| Ed 536 | Educational Research and Inclusive Education | 3 |
| Ed 537 | Professional Seminar I: Law and Ethics | 1 |
| Ed 525 | Student Teaching | 6-15 |
| SpEd 512 | Diagnostic Assessment | 3 |
| Ed 538 | Professional Seminar II: Philosophy | 1 |
| SpEd 525 | Student Teaching | 6-15 |
| Ed 540 | Functional Assessment for the Inclusive Elementary Educator | 3 |
| Ed 541 | Functional Curriculum for the Inclusive Elementary Educator | 3 |
| Ed 542 | Collaboration for the Inclusive Elementary Educator | 2 |
| Ed 543 | Specialized Techniques for the Inclusive Elementary Educator | 1 |
| 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 mid-level and/or secondary 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 session. Students are licensed to teach in their content area (e.g. math, social studies, English, science, etc.) at midlevel and/or high school as well as licensed as special educators. Students also receive additional instruction in supporting English language learners. Faculty from both the curriculum and instruction and the special education programs 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 580 | Adolescent Learners in Inclusive Settings | 2 |
| 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 | 1-3 |
| ITP 514 | Educating for Equity and Social Justice | 3 |
| ITP 521-528 | Secondary Methods | 8 |
| SpEd 513 | Classroom Based Assessment and Instructional Planning | 3 |
| SpEd 521 | Behavior Management in the Classroom | 3 |
| SpEd 528 | Instructional Methods I: Literacy (Midlevel/High School) | 3 |
| SpEd 529 | Instructional Methods II: Math and Content Instruction (Mid-level/High School) | 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 |
| SpEd 510 | Functional Assessment and Curriculum | 3 |
| SpEd 525 | Student Teaching | 6-15 |
| SpEd 536 | Specialized Techniques | 3 |
| Subtotal: 96 | | |

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 7 credits of coursework taken at PSU. 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 assistants in partner school districts seeking initial teacher licensure at both the elementary and secondary levels. In addition, the ESOL/Bilingual Endorsement is included as part of the program. The BTP core consists of 44-46 credits and the ESOL endorsement is 22 credit hours. Required prerequisite classes should be completed prior to admission into the BTP program. high school licensure students complete up to 22 credits of content-area and prerequisite classes. Students may apply at the undergraduate (minimum 90 credits) 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.

REQUIREMENTS

Early Childhood and Elementary Education

| | | |
|--------|--------------------------------------|----|
| CI 509 | Practicum in ESL/Bilingual Education | 3* |
| CI | Effective Strategies for | 3 |

| | | |
|----------------|---|-----|
| 443/543 | Language Minority Students | |
| CI | Second Language Acquisition & Development for K-12 Educators | 3 |
| 496/596 | | |
| CI | Assessment of Language and Content Learning for K-12 English Learners | 2 |
| 497/597 | | |
| ELP | School and Community Relations | 3 |
| 465/565 | | |
| ELP | Impact of Language and Culture | 3 |
| 466/566 | | |
| ELP | ESL/Bilingual Program Designs and Models | 3 |
| 467/567 | | |
| ITP | Classroom Management for Student Success | 3 |
| 411/511 | | |
| ITP | Learning and the Learner | 3 |
| 412/512 | | |
| ITP | Technology as a Tool for Learning | 3 |
| 413/513 | | |
| ITP | Integrated Methods and Curriculum Design | 5 |
| 438/538 | | |
| ITP | Elementary Mathematics Methods | 3 |
| 439/539 | | |
| ITP | Integrated Elementary Science Methods | 2 |
| 442/542 | | |
| ITP 545 or 548 | Student Teaching I | 4* |
| ITP 546 or 549 | Student Teaching II | 9* |
| ITP 551 | Research and Classroom Inquiry | 1-4 |
| ITP | Reflective Practitioner | 4 |
| 452/552 | | |
| ITP | Planning, Assessment, and Curriculum | 3 |
| 453/553 | | |
| ITP | Professional Development and Reflection | 2 |
| 454/554 | | |
| ITP | Language and Literacy Development of Diverse Learners | 3 |
| 455/555 | | |
| SpEd | Working with LEP with Special Needs | 2 |
| 455/555 | | |

Subtotal: 54-66

*required for licensure but may not be applied toward the M.Ed.

**optional course for licensure; required for the M.Ed.

Total 66 credits for licensure

Total 54 credits for M.Ed.

Middle Level and High School

| | | |
|---------|--|----|
| CI 509 | Practicum in ESL/Bilingual Education | 3* |
| CI | Effective Strategies for Language Minority Students | 3 |
| 443/543 | | |
| CI | Second Language Acquisition & Development for K-12 Educators | 3 |
| 496/596 | | |
| CI | Assessment of | 2 |

| | | |
|-------------------|---|-----|
| 497/597 | Language and Content Learning for K-12 English Learners | |
| ELP | School and Community Relations | 3 |
| 465/565 | | |
| ELP | Impact of Language and Culture | 3 |
| 466/566 | | |
| ELP | ESL/Bilingual Program Designs and Models | 3 |
| 467/567 | | |
| ITP | Classroom Management for Student Success | 3 |
| 411/511 | | |
| ITP | Learning and the Learner | 3 |
| 412/512 | | |
| ITP | Technology as a Tool for Learning | 3 |
| 413/513 | | |
| ITP 516 | Engaging Young Adolescent Learners | 3 |
| ITP 517 | Engaging Adolescent Learners | 3 |
| ITP | Secondary Methods | 6 |
| 421/521 - 428/528 | | |
| ITP 530 or 532 | Student Teaching I | 4* |
| ITP 531 or 533 | Student Teaching II | 9* |
| ITP 551 | Research and Classroom Inquiry | 1-4 |
| ITP | Reflective Practitioner | 4 |
| 452/552 | | |
| ITP | Planning, Assessment, and Curriculum | 3 |
| 453/553 | | |
| ITP | Professional Development and Reflection | 2 |
| 454/554 | | |
| ITP | Language and Literacy Development of Diverse Learners | 3 |
| 455/555 | | |
| SpEd | Working with LEP with Special Needs | 2 |
| 455/555 | | |

Subtotal: 55-69

*required for licensure but may not be applied toward the M.Ed.

**optional course for licensure; required for M.Ed.

Total 69 credits for license

Total 55 for M.Ed.

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 | 3 |

| | | |
|---------|---------------------|----|
| | Library Collections | |
| Lib 554 | Student Teaching I | 6 |
| Lib 555 | Student Teaching II | 15 |

Choose One:

| | | |
|----------|--|---|
| READ 530 | Reading and Composition in the Content Areas | 3 |
|----------|--|---|

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 of three universities in Oregon—Eastern Oregon University, Portland State University, and Southern Oregon University.

The READOregon program consists of two collaborative distance education programs available to teachers statewide:

- Reading Specialist Endorsement Program—graduate-level, distance-delivered 24-credit reading specialist endorsement program.
- Literacy Education Course of Study—graduate-level, distance-delivered, 12-credit literacy education certificate of completion for general classroom teachers.

The goal of both programs is to improve the reading 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.

Please visit the READOregon program: www.readoregon.org for program information.

For more information about Portland State University’s READOregon courses and admission, please visit our Web site at www.pdx.edu/ceed/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 | ELL School Community Relations | 3 |
| ELP 466/566 | Impact of Language and Culture in the Classroom | 3 |
| ELP 467/567 | ESL/Bilingual Program Design and Models | 3 |
| SPED 455/555 | Working with LEP Children who Have Special Needs | 2 |
| CI 509 | Practicum: Reading Endorsement | 1-9 |
| Subtotal: 22 | | |

LIBRARY MEDIA ENDORSEMENT

The Graduate School of Education is accepting applications for the Library/Media Endorsement program in Fall 2015. Admitted students will need to complete the endorsement program by the end of the summer 2016 term.

The Graduate School of Education offers a graduate-level 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 90-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 | 3 |
| | or | |
| Lib 562 | School Library Practicum: Secondary | 3 |

For information, see www.pdx.edu/ceed/library-media-endorsement.

EDUCATIONAL ADMINISTRATION

Two authorized programs comprise the Executive Leadership Program leading to institutional recommendations for initial and continuing 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 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 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 | Educational Leadership Project II | 1 |
| ELP 575 | Educational Leadership Project III | 1 |
| ELP 509 | Administrative Practicum | 9 |
| Subtotal: 32 | | |

THE CONTINUING 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 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 | 4 |
| ELP 580 | Leadership 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 2005 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 on-campus literacy program offerings focus on preparing licensed teachers to be eligible for the Oregon Reading Endorsement. Portland State University's course offerings in literacy education are designed to help preservice and inservice teachers become better teachers of reading

and writing. On-campus program options include:

- A 25-credit reading endorsement
- A 12-credit certificate of completion

The Literacy Education Program goals include:

- Best practices and standards as articulated by the International Reading Association and the National Council of Teachers of English,
- Methodologies and resources for creating classroom literacy environments,
- Engaging students and individualizing teaching,
- Principles and practices for working with students needing extra help with literacy, and
- Authentic and contemporary assessment practices.

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 specifically for those planning careers as Title I teachers, reading specialists, literacy coaches, consultants, and district-level reading and language arts coordinators. A reading endorsement is also useful for classroom teachers wishing more 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 endorsement. Courses numbered 808 and 810 are not allowed.

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 |

In addition, one of the following is required for the core (chosen according to authorization level):

| | | |
|--------|------------------------|---|
| CI 574 | Assessing and Teaching | 3 |
|--------|------------------------|---|

| | | |
|--------|--|---|
| CI 530 | Struggling Elementary Readers Teaching Struggling Adolescent Readers | 3 |
|--------|--|---|

Electives (6 credits appropriate to authorization level chosen in consultation with advisor)

| | | |
|---------|--|---|
| CI 572 | Language and Literacy in Early Childhood Education | 3 |
| CI 547 | Advanced Elementary Literacy Methods | 3 |
| CI 533 | Computer Applications in Instruction | 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 |

Note: No 400 or 800 level courses are accepted.

Practicum (3 credits)

| | | |
|--------------|--------------------------------|-----|
| CI 509 | Practicum: Reading Endorsement | 1-9 |
| Subtotal: 25 | | |

SCHOOL COUNSELING LICENSING

The school counseling specialization has three options: track I, track II, and licensure only.

Track I

The program consists of 77 credits of study leading to an M.A. or M.S. in education: school counseling specialization. The program is for individuals with two years' teaching experience. Upon completion of the program, students are recommended for the Initial School Counselor License.

After graduation, the Continuing License requires experience as a school counselor, and completion of a portfolio documenting professional development as defined by OAR 584-070-0090.

Track II

Track II is designed for students who cannot document two years of successful experience as a licensed school teacher. The program consists of 83 credits of study leading to the approved M.A./M.S. in counseling in education: school counseling specialization. Since track II is designed for individuals who cannot document two years' teaching experience, TSPC requires a 6-credit, 200-clock-hour teaching requirement as part of their program.

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. Continuing License requires experience as a school counselor and documentation of professional development as defined by OAR 584-070-0090.

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 one of the required basic skills tests.
<http://www.pdx.edu/coun/prerequisites>
- 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.
- Pass the NES/ORELA School Counselor test to be eligible for licensure.

- After graduation and licensure, verify three years of one-half time or more counseling experience in Oregon public schools or in Oregon private schools accredited by the Northwest Association of Schools and of Colleges and Universities as a requirement for Continuing License as a school counselor.
- Develop a professional portfolio as a school counselor with an Initial License as a condition for recommendation for the Continuing License as a school counselor.

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 | Foundations of Special Education | 3 |
| 510 | | |

| | | |
|----------|---|------|
| SpEd 510 | Legal & Ethical Foundations | 3 |
| SpEd 510 | Classroom Assessment, Instruction, & Behavior Management | 4 |
| SpEd 510 | Math Assessment & Instruction | 3 |
| SpEd 509 | Professional Introduction to the Start of the School Year | 2 |
| SpEd 510 | Reading Assessment & Instruction | 3 |
| SpEd 521 | Behavior Management in the Classroom | 3 |
| SpEd 509 | Practicum: Academic Skills Focus | 3 |
| SpEd 510 | Curriculum & Assessment for Students with DD/ASD-I | 4 |
| SpEd 510 | Curriculum & Instruction for Students with DD/ASD II | 4 |
| SpEd 509 | Practicum: Functional Life Skills Focus | 3 |
| SpEd 510 | Families & Advocacy | 3 |
| SpEd 510 | IEP & Collaborative Teaming | 3 |
| SpEd 510 | Assessment | 3 |
| SpEd 510 | Reading & Writing across the Continuum | 4 |
| SpEd 525 | Student Teaching | 6-15 |
| SpEd 507 | Student Teaching Seminar | 1 |

SpEd 510: Reading Assessment and Instruction, Classroom Assessment, Instruction, & Behavior Management, Families & Advocacy: Separate sections for those seeking either early childhood/elementary or middle level/high school authorizations.
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 six-term program that is designed with working teachers in mind by offering a hybrid of on-campus and online coursework.

For current prerequisites, please see: <http://www.pdx.edu/sped/addspedprerequisite-coursework>

REQUIREMENTS

Courses

| | | |
|----------|--|---|
| SpEd 510 | Legal & Ethical Foundations | 3 |
| SpEd 510 | Math Assessment & Instruction | 3 |
| SpEd 510 | Reading Assessment & Instruction | 3 |
| SpEd 521 | Behavior Management in the Classroom | 3 |
| SpEd 509 | Literacy Work Sample Practicum & Seminar | 3 |
| SpEd 510 | Curriculum & Assessment for Students with DD/ASD-I | 4 |
| SpEd 510 | Curriculum & Instruction for Students with DD/ASD II | 4 |
| SpEd 509 | Functional Practicum & Seminar | 3 |
| SpEd 510 | Families & Advocacy | 3 |
| SpEd 510 | IEP & Collaborative Teaming | 3 |
| SpEd 510 | Assessment | 3 |
| SpEd 510 | Reading & Writing across the Continuum | 4 |
| SpEd 510 | Classroom Assessment, Instruction, and Behavior Management | 4 |

SpEd 510: Reading Assessment & Instruction, Families & Advocacy, Classroom Assessment, Instruction, and Behavior Management: Separate sections for those seeking either early childhood/elementary or middle level/high school authorizations.
Subtotal: 43

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 needed skills that are associated with blindness and to adapt and modify general education curriculum to insure accessibility for students.

REQUIREMENTS

Courses

| | | |
|----------|-------------------------------|---|
| SpEd 509 | STE I Visually Impaired | 3 |
| SpEd 509 | STE II Visually Impaired | 3 |
| SpEd 510 | Legal and Ethical Foundations | 3 |

| | | |
|----------|--|------|
| SpEd 520 | Collaboration I: Families and Community - EL and EI/SE | 3 |
| SpEd 521 | Behavior Management in the Classroom | 3 |
| SpEd 525 | Student Teaching | 6-15 |
| SpEd 540 | Education of 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 | Orientation and Mobility/Life 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**

| | | |
|----------|--|------|
| Ed 510 | Experimental Course | 1-6 |
| CI 571 | Play: Curriculum in Early Childhood Education | 3 |
| SpEd 509 | Prac I: Supervised Field Experience | 3 |
| SpEd 509 | Prac II: Supervised Field Experience | 3 |
| SpEd 510 | Literacy EI/SE | 3 |
| SpEd 520 | Collaboration I: Families and Community - EL and EI/SE | 3 |
| SpEd 525 | Student Teaching | 6-15 |
| SpEd 507 | Seminar | 1-6 |
| 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 (CE/ED)

503-725-4670

CEED provides credit and noncredit professional development for PreK-12 educators, administrators, and support staff; post secondary educators and administrators; the broad spectrum of human service professionals (e.g., counselors, social workers, psychologists); and training professionals. Courses and workshops are offered on campus, at a variety of sites throughout the state, online, and by contract on-site in school districts and human service agencies. Offerings include: off-site master's

degrees; administrative licensure programs; the added elementary endorsement; part-time GTEP; educational media/librarianship endorsement, licensure and master's; graduate certificates (graduate training in addictions and in marriage and family therapy); and a number of certificate of completion programs (e.g., training and development, instructional technology, e-learning, and differentiated instruction).

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.

Early Childhood Training Center (ECTC)

Inactive.

ECTC provides credit and noncredit courses, conferences, workshops, on-site consultation, and technical assistance to individuals and programs serving children age 0-5 and their families.

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
 Barbara Chen, 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/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.

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

This program is not accepting new applicants at this time.

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/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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| 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) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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 |
| CE 111 | Introduction to Civil and Environmental Engineering | 3 |
| CE 112 | Civil and Environmental Engineering | 3 |

| | | |
|---------|---|---|
| CE 115 | Computations Civil Engineering Drawing and Spatial Analysis | 3 |
| CE 211 | Plane Surveying and Mapping | 3 |
| CE 212 | Field Problems in Plane Surveying | 1 |
| EAS 211 | Statics | 4 |
| EAS 212 | Strength of Materials | 4 |
| EAS 215 | Dynamics | 4 |

PH 211-213 are interchangeable with PH 221-223.

UnSt FRINQ and SINQ sequences (27 credits), or transfer 27 credits of arts and letters, including

| | | |
|----------|--------------------------------|---|
| Wr 121 | College Writing | 4 |
| Wr 227 | Introductory Technical Writing | 4 |
| Comm 220 | Public Speaking | 4 |

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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| 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) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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 |
| CE 111 | Introduction to Civil and Environmental Engineering | 3 |
| CE 112 | Civil and Environmental Engineering Computations | 3 |
| CE 115 | Civil Engineering | 3 |

| | | |
|---------|------------------------------|---|
| | Drawing and Spatial Analysis | |
| EAS 211 | Statics | 4 |
| EAS 212 | Strength of Materials | 4 |
| EAS 215 | Dynamics | 4 |

PH 211-213 are interchangeable with PH 221-223

UnSt FRINQ and SINO sequences (27 credits), or transfer 27 credits of arts and letters, including:

| | | |
|----------|--------------------------------|---|
| Wr 121 | College Writing | 4 |
| Wr 227 | Introductory Technical Writing | 4 |
| Comm 220 | Public Speaking | 4 |

2. Have a minimum GPA overall of 2.33.

3. Complete a minimum of 90 credits.

Selective Admission - BSCE and BSENVE

To ensure the highest quality of our Upper Division Programs, the CEE Department has a selective admission process. This may limit the number of applicants accepted to our programs even if they meet the minimum requirements. The selective admission process follows these guidelines:

1. The number of applicants to the program will be limited for fall, winter and spring admission. The admission limit is based on available CEE resources to deliver high-quality undergraduate experience.
2. A committee of CEE faculty and staff make admission decisions after reviewing each applicant's admission materials.
3. Factors that are taken into account in ranking students are:
 - Individual course grades and GPA for required lower-division courses.
 - Schools attended.
 - Other course grades and overall GPA.
 - Other factors including engineering job experience, participation in PSU engineering organizations, and other extra-curricular activities.

Admission Process - BSCE and BSENVE

Students may declare civil or environmental engineering as their major at any time after

enrolling at Portland State University. However, students must be admitted formally to the BSCE or BSENVE program before they will be allowed to enroll in restricted, upper-division courses offered by the program. Applications for the BSCE and BSENVE programs are online at www.pdx.edu/cee/UGapply. In addition to the Departmental online application form, students transferring from other institutions must also apply for admission to PSU and submit one copy of their transcripts to the PSU Office of Admissions .

Application Deadlines - BSCE and BSENVE

Fall term - April 15
 *Winter term - September 15
 *Spring term - December 15
 *Due to course flow and prerequisites, admittance to the BSCE or BSENVE program is recommended for the fall term only. However, mid-year admission is occasionally possible and will be determined on a case-by-case basis.

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:

1. The term GPA in all courses taken at PSU must be 2.0 or higher.
2. 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:

1. The student is placed on probation for two consecutive terms or for a total of three terms.
2. 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).

Pass/No Pass Grading Policy - BSCE and BSENVE

All courses specifically required by the University or by the Department of Civil and Environmental Engineering must be taken for a letter grade unless a required course is only offered with a pass/no pass option.

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 educational objectives of the Civil Engineering program at Portland State University are as follows:

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 Program 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 the following University (p. 25)and department degree requirements as follows for their upper division engineering coursework:

1. Junior and senior engineering courses must be completed with a minimum grade of C-;
2. Prerequisite courses must be passed with a grade of C- or better in order to move ahead in the sequence;
3. The student’s cumulative PSU GPA must be 2.33 or higher to graduate from the BSCE program;
4. 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 requirements as listed under the "Eligibility - BSCE" section above.

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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| | 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 Differential Equations I | 4 |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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 |

| | | |
|---------------------|---|---|
| ME 321 | Engineering Thermodynamics I | 4 |
| Stat 451 | Applied Statistics for Engineers and Scientists I | 4 |
| Ec 314 | Private and Public Investment Analysis | 4 |
| Subtotal: 52 | | |

Ec 314 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 Engineering Project Management and Design I | 3 |
| CE 494 | Civil Engineering Project Management and Design II | 3 |
| CE 432 | Structural Steel Design | 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: 191

Students may take one course outside the CEE Department to apply toward senior electives. Approved non-CE courses are ME 321, ME 455, G 424, Geog 488, and Geog 492. Additional non-CE classes require prior approval of the Department Chair.

**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 recommended tracks in geo-environmental, surface water hydrology and remote sensing, surface and groundwater water quality, groundwater hydrology, or air quality. Many of the required courses in the program are interdisciplinary drawing from the Departments of Chemistry, Mathematics and Statistics, Environmental Science and Management, 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 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 Program Outcomes

Program outcomes are goals that describe our expectations as BSENVE students graduate. 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. 25) and department degree requirements for their upper division engineering coursework.

1. Junior and senior engineering courses must be completed with a minimum grade of C-:
2. Prerequisite courses must be passed with a grade of C- or better in order to move ahead in the sequence;
3. The student’s cumulative PSU GPA must be 2.33 or higher to graduate from the BSENVE program;
4. 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 requirements as listed under the "Eligibility - BSENVE" section above.

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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Bi 234 | Elementary Microbiology | 4 |
| Bi 235 | Microbiology Laboratory | 2 |
| | Freshman Inquiry | 15 |

Subtotal: 52

Sophomore Year

| | | |
|---------|------------------------------------|----|
| EAS 211 | Statics | 4 |
| EAS 212 | Strength of Materials | 4 |
| EAS 215 | Dynamics | 4 |
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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: 44

Junior Year

| | | |
|---------|--|---|
| ESM 320 | Analysis of Environmental Systems I | 4 |
| ESM 321 | Analysis of 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 |
| ME 321 | Engineering Thermodynamics I | 4 |
| CE 315 | The Civil and Environmental Engineering Profession | 1 |
| CE 345 | Environmental Soil | 2 |

| | | |
|----------|---|---|
| | Mechanics | |
| CE 361 | Fluid Mechanics | 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 |

Subtotal: 48

Senior Year

| | | |
|--------|--|----|
| CE 474 | Unit Operations of Environmental Engineering | 4 |
| CE 480 | Chemistry of Environmental Toxins | 4 |
| CE 484 | Civil Engineering Project Management and Design I | 3 |
| CE 494 | Civil Engineering Project Management and Design II | 3 |
| Ec 314 | Private and Public Investment Analysis | 4 |
| | Upper-division cluster | 8 |
| | Approved Environmental Engineering Electives | 18 |

Subtotal: 44

Ec 314 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 tracks in geo-environmental engineering, surface water quality, surface hydrology and hydraulics, subsurface hydrology and contaminant transport, or air quality (students are not restricted to these tracks and may select electives in any combination). BSENVE Students are also allowed to take one of the following courses for elective credit: G 424, Geog 488, or Geog 492. Additional elective classes outside of the CE subject area require prior approval from the Department Chair.

1. Geoenvironmental:

| | | |
|--------|--|---|
| CE 445 | Geo-environmental Engineering with Geosynthetics | 2 |
|--------|--|---|

2. Subsurface hydrology and contaminant transport:

| | | |
|--------|---|---|
| CE 469 | Subsurface Hydrology | 4 |
| CE 479 | Fate and Transport of Toxics in the Environment | 4 |
| CE 571 | Subsurface Contaminant Transport | 4 |

3. Surface water hydrology:

| | | |
|--------|-----------------------------------|---|
| CE 464 | Hydrologic and Hydraulic Modeling | 4 |
| CE 467 | Hydrologic and | 4 |

| | | |
|--------|--------------------------------------|---|
| CE 565 | Hydraulic Design Watershed Hydrology | 4 |
|--------|--------------------------------------|---|

4. Surface water hydrodynamics and water quality

| | | |
|----------------|---|---|
| CE 479/ESM 479 | Fate and Transport of Toxics in the Environment | 4 |
| CE 481 | The Columbia River as a System | 2 |
| CE 482 | Introduction to Sediment Transport | 4 |
| CE 483 | Estuarine Circulation | 4 |
| CE 572 | Environmental Fluid Mechanical Transport | 4 |
| CE 576 | Environmental Fluid Mechanics | 4 |
| CE 578 | Water Quality Modeling | 4 |

5. Air quality:

| | | |
|----------------|-------------------------------|---|
| CE 488/ESM 460 | Air Quality | 4 |
| Ph 375 | Climate Change and Human Life | 4 |
| Ph 471/ESM 471 | Atmospheric Physics | 4 |
| Ph 477 | Air Pollution | 4 |

Subtotal: 188

ENVIRONMENTAL ENGINEERING MINOR

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 Differential Equations I | 4 |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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 | 4 |

| | | |
|--------|---|---|
| CE 474 | Engineering Unit Operations of Environmental Engineering | 4 |
|--------|---|---|

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.

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 planning to minor in environmental engineering should consult with an advisor in the Department of Civil and Environmental Engineering.

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:

- Completion of 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. The proposal requires Chair approval. Honors theses 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 B.S./B.A. 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:

1. 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;
2. 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. A candidate is disqualified if he/she receives a grade of "C+" or lower in four CEE courses.

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.

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 Ph.D. 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

1. A PhD student must complete the following departmental requirements:
2. Complete a minimum of 51 credits (including coursework and dissertation credits) beyond the M.S. degree;
3. 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;
4. Meet the University's residency requirement;
5. Pass the comprehensive examination;
6. Present and pass a proposal defense for advancement to candidacy;
7. Complete 27 credit hours of dissertation credit (CE 603) leading to the completion of a doctoral dissertation;
8. Present and pass the final oral dissertation defense; and
9. 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.

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 <http://www.pdx.edu/computer-science/bachelor-of-science-program>.

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 should check with the Computer Science Department for deadlines and other details. 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 48 upper-division computer science credits (CS 300, CS 305, CS 311, CS 321, CS 322, CS 333, CS 350, CS 486, CS 469, CS 470 and 12 credits of upper-division computer science electives). Students also must be in admitted status during the term they intend to graduate.

Eligibility for Admission

To be eligible for initial undergraduate admission, each student should meet the following requirements:

1. Have completed each of the following lower division core Computer Science courses: CS 162, CS 163, CS 201, CS 202, CS 250, and CS 251 with a grade of C or better.
2. Have an overall average grade point of 2.0 or better in all required CS courses, computed over all graded attempts to take these courses. For example, if a student receives a D in CS 250, retakes it and receives a C, the student average grade point over these two attempts would be 1.5. However, a B in another required CS course, such as CS 202, would raise the average grade point to 2.0 over these three graded attempts. X's and W's are not counted as graded attempts.
3. Have successfully completed a programming proficiency demonstration (consult with the CS Department for details).
4. Have completed these required courses from outside the Computer Science Department with a grade of C- or better: Mth 251; Mth 252; an approved laboratory science sequence; Wr 227; Comm 220; and Freshman Inquiry or Wr 121.
5. Have completed a minimum of 90 credits.
6. Be in Good Academic Standing.

Students not meeting these requirements may petition the CS Appeals Committee for special admission.

Selective Admission

If the number of eligible applicants for admission to the Computer Science program exceeds that for which resources are available, acceptance will be competitive. In the event selective admission becomes

necessary, the All Attempts GPA computed for the required lower division CS core will be used. Students denied admission may petition the CS Appeals Committee for special admission.

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 12 months. 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.

COMPUTER SCIENCE B.S.

Majors in computer science must complete the following University and departmental degree requirements.

1. 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.
2. 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.
3. After admission to the computer science program, students are required to complete a minimum of 40 upper-division computer science credits in residence at PSU.
4. 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.

5. 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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 253 | Calculus III or | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| | Freshman Inquiry | 15 |
| | 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 311 | Computational Structures | 4 |
| CS 321 | Languages and Compiler Design | 4 |
| CS 322 | Languages and Compiler Design | 4 |
| CS 333 | Introduction to Operating Systems | 4 |
| CS 350 | Algorithms and Complexity | 4 |
| Stat 451 | Applied Statistics for Engineers and Scientists I | 4 |
| Wr 227 | Introductory Technical Writing | 4 |
| | Upper-division cluster | 12 |

| | | |
|---------------------|--|----|
| Subtotal: 46 | | |
| Senior year | | |
| CS 469 | Software Engineering | 3 |
| | Capstone | |
| CS 470 | Software Engineering | 3 |
| | Capstone | |
| CS 486 | Introduction to Database Management Systems | 4 |
| ECE 341 | Introduction to Computer Hardware | 4 |
| | Approved upper-division computer science electives | 12 |
| | Approved Math electives | 7 |
| | Approved Science elective | 4 |
| | Free electives | 6 |
| Subtotal: 43 | | |

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 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 |

except that no more than 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 |

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) | 4 |
| Ph 212 | General Physics (with Calculus) | 4 |
| Ph 213 | General Physics (with Calculus) | 4 |

| | | |
|--------|---|---|
| Ph 214 | With 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 |

Sequence 2:

| | | |
|--------|------------------------------|---|
| Ch 221 | General Chemistry I | 4 |
| Ch 222 | General Chemistry II | 4 |
| Ch 223 | General Chemistry III | 4 |
| | With | |
| Ch 227 | General Chemistry Laboratory | 1 |
| Ch 228 | General Chemistry Laboratory | 1 |
| Ch 229 | General Chemistry Laboratory | 1 |

Sequence 3:

| | | |
|--------|-------------------------------|---|
| Bi 211 | Principles of Biology I | 4 |
| Bi 212 | Principles of Biology II | 4 |
| Bi 213 | Principles of Biology III | 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 | 0-4 |
| 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 | 3 |
| Mth 458 | The Mathematical Theory of Games | 3 |
| Mth 461 | Graph Theory I | 3 |
| Mth 462 | Graph Theory II | 3 |
| Stat 366 | Introduction to Experimental Design | 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.

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 is required. Applicants must take the general portion of the Graduate Record Examination, and submit two letters of recommendation, transcripts, and a statement of purpose to the department. Information on minimum 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. 40). 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. 43). 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.

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
- Graduate Certificates

Mission, Vision & Values

Mission

We prepare students for successful careers and lifelong learning in engineering and research through knowledge creation, technology development, and innovation.

Vision

Our vision is to be a premier source of electrical and computer engineering talent and research in the Pacific Northwest. This means our graduates are successful, our research is innovative, and we are the intellectual center for our discipline in the Portland region.

Values

- We value the success of our graduates
- We value research, knowledge creation and innovation

- We value high intellectual and ethical standards
- We value quality education
- We value broad access to learning
- We value diverse paths to proficiency
- We value our contribution to the Oregon economy
- We value lifelong learning

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/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

Admission to the Electrical Engineering or Computer Engineering programs.

Students may declare Electrical Engineering (EE) or Computer Engineering (CMPE) as their major at any time after enrolling at Portland State University. However, students must be admitted formally to their chosen program by the Department of Electrical and Computer Engineering before they will (1) be allowed to enroll in restricted upper-division courses offered by the program, and (2) be graduated from the program. Application forms may be obtained from the Office of Student Services, Maseeh College of Engineering and Computer Science, Suite 100, Engineering Building or from the Electrical and Computer Engineering Department, Suite 160, Fourth Avenue Building. PSU students who anticipate completing all eligibility requirements before the term for which admission to a degree program is sought may apply.

Students transferring from other institutions who want to be admitted formally to the EE and CMPE programs must:

- Meet all eligibility requirements.
- Apply for admission to PSU.
- Apply for program admission to the Department of Electrical and Computer Engineering.
- Have one copy of their transcripts sent to their engineering or computer science department.
- Have one copy of their transcripts sent to the the Department of Electrical and Computer Engineering.
- Application deadlines for admission to the Electrical Engineering or Computer Engineering programs are:
 - for fall term — April 15
 - for winter term — August 15

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 |
| Ch 227 | General Chemistry Laboratory | 1 |
| ECE 101 | Exploring Electrical Engineering | 4 |
| ECE 102 | Engineering Computation | 4 |
| ECE 103 | Engineering Programming | 4 |
| ECE 171 | Digital Circuits | 4 |
| ECE 221 | Electric Circuit Analysis I | 4 |
| ECE 222 | Electric Circuit Analysis II | 4 |
| ECE 223 | Electric Circuit Analysis III | 4 |
| ECE 271 | Digital Systems | 4 |
| Mth 251 | Calculus I | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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 Freshman Inquiry | 1 |

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

Computer Engineering:

| | | |
|---------|----------------------------------|-----|
| Ch 221 | General Chemistry I | 4 |
| Ch 227 | General Chemistry Laboratory | 1 |
| CS 162 | Introduction to Computer Science | 4 |
| ECE 102 | Engineering Computation | 4 |
| ECE 171 | Digital Circuits | 4 |
| ECE 221 | Electric Circuit Analysis I | 4 |
| ECE 222 | Electric Circuit Analysis II | 4 |
| ECE 271 | Digital Systems | 4 |
| Mth 251 | Calculus I | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Mth 261 | Introduction to Linear | 0-4 |

| | | |
|--------|--|---|
| Ph 221 | Algebra General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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 Freshman Inquiry | 1 |

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

2. Have a minimum technical GPA of 2.25

(Technical GPA is based on an average of all major-related classes taken prior to admission).

Selective Admission

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.

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.

Continuation Criteria

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:

1. The cumulative major GPA 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 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.
3. The Electrical and Computer Engineering BS degree programs require that students receive a C- or better in all required upper division courses numbered 300 or higher. If a student is unable to attain this grade after completing the course three 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 expelled 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 department chair and 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 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 32 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. Students are expected to declare their specialization track by the Spring term of their junior year. 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 171 | Digital Circuits | 4 |
| ECE 101 | Exploring Electrical Engineering | 4 |
| ECE 102 | Engineering Computation | 4 |
| ECE 103 | Engineering Programming | 4 |
| Mth 251 | Calculus I | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Ch 221 | General Chemistry I | 4 |
| Ch 227 | General Chemistry Laboratory | 1 |
| | Freshman Inquiry | 15 |

Subtotal: 48

Sophomore year

| | | |
|---------|-------------------------------|---|
| ECE 221 | Electric Circuit Analysis I | 4 |
| ECE 222 | Electric Circuit Analysis II | 4 |
| ECE 223 | Electric Circuit Analysis III | 4 |
| ECE 271 | Digital Systems | 4 |

| | | |
|---------|------------------------------------|----|
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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

| | | |
|----------|--|---|
| ECE 311 | Feedback and Control | 4 |
| ECE 321 | Electronics I | 4 |
| ECE 322 | Electronics II | 4 |
| ECE 323 | Electronics III | 4 |
| ECE 331 | Engineering Electromagnetics I | 4 |
| ECE 332 | Engineering Electromagnetics II | 4 |
| ECE 371 | Microprocessors | 4 |
| ECE 312 | Fourier Analysis | 4 |
| Stat 451 | Applied Statistics for Engineers and Scientists I | 4 |
| Wr 327 | Technical Report Writing Upper-division Math/Science elective Track specific junior electrical engineering electives | 4 |

Subtotal: 48

Track specific junior electives are listed in departmental guides and departmental website.

Students in the Energy Systems track take ECE 347 instead of ECE 323.

Wr 227 is accepted for transfer students only.

Senior year

| | | |
|---------|--|----|
| ECE 411 | Industry Design Processes | 4 |
| ECE 412 | Senior Project Development I | 4 |
| ECE 413 | Senior Project Development II | 2 |
| | Track specific senior electrical engineering electives | 16 |
| | Upper-division cluster | 12 |
| Ec 314 | Private and Public Investment Analysis | 4 |

Subtotal: 38

Ec 314 is a required course that can be taken as a part of some upper-division clusters.

Track specific senior electrical engineering electives

The student is required to complete at least 16 senior elective credits, as determined by their chosen track. A list of tracks and their corresponding electives is published in departmental guides and the departmental website and currently includes Analog/RF Circuits, Digital/VLSI, Electromagnetics, Microelectronics, Power Engineering, and Signal Processing tracks. The following omnibus numbered courses are excluded:

| | | |
|---------|------------------------|-----|
| ECE 401 | Research | 1-6 |
| ECE 405 | Reading and Conference | 1-6 |
| ECE 407 | Seminar | 1-6 |

ECE 403 Honors thesis may be used by students in the electrical engineering honors track.

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 221 | Electric Circuit Analysis I | 4 |
| ECE 222 | Electric Circuit Analysis II | 4 |
| ECE 223 | Electric Circuit Analysis III | 4 |
| ECE 271 | Digital Systems | 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 adviser 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. Two specialized tracks are offered: Computer Hardware and Embedded Systems. 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 171 | Digital Circuits | 4 |
| ECE 102 | Engineering Computation | 4 |
| CS 162 | Introduction to Computer Science | 4 |
| Ch 221 | General Chemistry I | 4 |
| Ch 227 | General Chemistry Laboratory | 1 |
| Mth 251 | Calculus I | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| | Freshman Inquiry | 15 |

Subtotal: 40

CS 162: or equivalent

Sophomore year

| | | |
|---------|----------------------------------|-----|
| ECE 221 | Electric Circuit Analysis I | 4 |
| ECE 222 | Electric Circuit Analysis II | 4 |
| ECE 271 | Digital Systems | 4 |
| CS 163 | Data Structures | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |

| | | |
|---------------------|------------------------------------|----|
| Ph 223 | General Physics (with Calculus) | 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

| | | |
|---------------------|---|---|
| ECE 321 | Electronics I | 4 |
| ECE 351 | Hardware Description Languages and Prototyping | 4 |
| ECE 371 | Microprocessors | 4 |
| ECE 372 | Microprocessor Interfacing and Embedded Systems | 5 |
| ECE 373 | Embedded Operating Systems & Device Drivers | 5 |
| CS 201 | Computer Systems Programming | 4 |
| CS 333 | Introduction to Operating Systems | 4 |
| Mth 356 | Discrete Mathematics | 4 |
| Stat 451 | Applied Statistics for Engineers and Scientists I | 4 |
| Wr 327 | Technical Report Writing Upper-division | 4 |
| | Math/Science elective | 4 |
| Subtotal: 46 | | |

Wr 227 is accepted for transfer students only.

Senior year

| | | |
|---------------------|---|----|
| ECE 411 | Industry Design Processes | 4 |
| ECE 412 | Senior Project Development I | 4 |
| ECE 413 | Senior Project Development II | 2 |
| ECE 485 | Microprocessor System Design | 4 |
| ECE 486 | Computer Architecture | 4 |
| | Track specific senior electrical engineering electives | 16 |
| Ec 314 | Private and Public Investment Analysis Upper-division cluster | 4 |
| | Upper-division cluster | 8 |
| Subtotal: 46 | | |

Ec 314 is a required course that can be taken as a part of some upper-division clusters.

Track specific senior computer engineering electives

The student is required to complete at least 16 senior computer engineering elective credits, as determined by their chosen track. A list of tracks and their corresponding electives is published in departmental guides and on departmental website and it currently includes Computer Hardware and Embedded

Systems. The following omnibus numbered courses are excluded:
 ECE 401 Research 1-6
 ECE 405 Reading and Conference 1-6
 ECE 407 Seminar 1-6

ECE 403 Honors Thesis may be used by the students in computer engineering honors track.

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 the junior year, but applications will be considered year-round. Students should submit the following:

1. ECE Honors Program application form.
2. Official transcripts of all university work.
3. Letters of reference from at least two ECE faculty members.
4. 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 3.4.
- 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
- One ECE faculty recommendation

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.Eng., 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 *ECE Graduate Handbook* at www.pdx.edu/ece/graduate-handbook for detailed program information.

ADMISSION REQUIREMENTS

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 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 a related field (e.g., mathematics, physics, computer science, or mechanical engineering) will be required to take an individually specified group of undergraduate ECE classes as a Post-Bac 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 graduate student. Additionally, M.S. applicants with a non-ABET accredited electrical or computer engineering B.S. degree must submit official GRE scores. GRE scores must be no older than five years at time of application.

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 and must submit official GRE scores. GRE scores must be no older than five years at time of application.

ELECTRICAL AND COMPUTER ENGINEERING M.S.

Please refer to the ECE Graduate Handbook for detailed degree requirements. In addition to the University master's degree requirements, a candidate for the M.S. degree in electrical and computer engineering must complete at least 45 adviser approved graduate-level credits.

ELECTRICAL AND COMPUTER ENGINEERING PH.D.

Please refer to the ECE Graduate Handbook for detailed degree requirements and deadlines. In addition to the University doctoral degree requirements, a candidate for the Ph.D. degree in electrical and computer engineering must complete a minimum of 45 graduate credits in electrical and computer engineering. In addition to these 45 ECE graduate credits, a student must complete an additional 8 credits of graduate lecture

courses, as specified by the student's Ph.D. Advisory Committee. The University requires a minimum of 81 credits beyond the bachelor's degree for a Ph.D., so a student must take one additional graduate credit to satisfy the University's total credit requirement. Prior to graduation, a Ph.D. student is required to have some phase of their doctoral research published or accepted for publication in a journal approved by a majority of the Dissertation Committee. The Dissertation Committee may require more than one such publication.

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
- Ph.D.—Participating department in Systems Science Doctoral Program
- 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 late afternoon and 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. 40), 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 M.S.E.

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 Bachelors 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 511: Pioneering Innovation, 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 students 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 and Materials Engineering
Suite 400, Engineering Building
503-725-4290
www.pdx.edu/mme/

- B.S.—Mechanical Engineering
- M.S.—Mechanical Engineering
- M.Eng.—Mechanical Engineering
- M.S.—Materials Science and Engineering
- Ph.D.—Mechanical Engineering

Mechanical engineering provides a wide range of career paths with a broad spectrum of employers. Careers are available in aerospace, energy conversion, energy utilization, environmental design and management, chemical processing, electromechanical systems, controls, mechanical design, manufacturing, and materials, to name a few. Employment may be found in virtually every kind of industry, every branch of government, and every kind of utility.

Undergraduate program

The BSME curriculum at Portland State University is distinguished by its emphasis on the design process culminating in the Capstone project in the Senior year. The curriculum allows specialization in fluid systems, mechanical systems, thermal systems, and machine design.

The mechanical engineering curriculum is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - 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.

The mechanical engineering department is engaged in a continuous program improvement process in which the educational needs of our students have the utmost importance. The goal of the

department is to ensure that all of our graduates receive a balanced education that makes them highly desirable to employers.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Mechanical and Materials Engineering's undergraduate degrees, go to www.pdx.edu/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.

ADMISSION REQUIREMENTS

POLICY ON ADMISSION TO THE BSME PROGRAM

Students may declare Mechanical Engineering as their major at any time after enrolling at Portland State University. However, students must be admitted formally to 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. An online application is available at, <http://www.pdx.edu/mme/when-to-apply>. Students will apply to the program while they are completing their final term of coursework.

Students transferring from other institutions who want to be admitted must:

- Meet all eligibility requirements.
- Apply for admission to PSU.
- Apply for program admission to the Mechanical and Materials Engineering department.
- Have one copy of their transcripts sent to the Mechanical and Materials Engineering office.

- Have one copy of their transcripts sent to the Office of Admissions.

Application deadline for admission to a degree program:

- Fall term - April 15

ELIGIBILITY

To be eligible for admission to the Mechanical Engineering program a student must meet the following minimum requirements:

1. Complete the following courses with a minimum grade of C and a minimum GPA of 2.5:

| | | |
|----------|--|-----|
| Ch 221 | General Chemistry I | 4 |
| Ch 227 | 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 |
| 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 251 | Calculus I | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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 | 69 |

Ph 211, Ph 212, and Ph 213 also accepted.

Freshman Inquiry: Comm 220 and Wr 121 for transfer students.

2. Complete a minimum of 90 credits

Candidates who do not meet all criteria may, upon petition, be granted eligibility when an evaluation of the student's total record justifies such action and they are recommended by the Maseeh College's Academic Appeals Committee.

SELECTIVE ADMISSION

If the number of eligible applicants for admission to the Mechanical Engineering program exceeds that for which resources are available, acceptance will be competitive.

The selective admission process uses the following criteria:

1. The number of students admitted to the BSME program will be set with the goal of maintaining the highest quality of the student learning experience.
2. All applications for admission for a given term are evaluated as a single group (no rolling admission).
3. Applicants are ranked according to a composite GPA, which will be comprised of all technical classes (Math, Chemistry, Physics, and Engineering). GPAs are computed without using replacement policy for grades of D or below. All attempts at taking a course are included in the computation.
4. Priority, within reasonable limits, will be given to students from PSU.
5. The final admission decision is made by a committee of MME faculty and staff.

CONTINUATION CRITERIA

After admission to the Mechanical Engineering 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 and Materials Engineering Department and the Maseeh College's Academic Appeals Committee, and 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.

MECHANICAL ENGINEERING B.S.

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 Engineering.

REQUIREMENTS

Freshman year

| | | |
|--------|-------------------------------------|---|
| ME 120 | An Introduction to Engineering | 3 |
| ME 121 | Introduction to Systems and Control | 3 |
| ME 122 | Introduction to Design | 3 |
| Ch 221 | General Chemistry I | 4 |
| Ch 222 | General Chemistry II | 4 |
| Ch 227 | General Chemistry Laboratory | 1 |
| Ch 228 | General Chemistry | 1 |

| | | |
|---------|--------------------------------|-----|
| | Laboratory | |
| Mth 251 | Calculus I | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| | Freshman Inquiry | 15 |

Subtotal: 46

Sophomore year

| | | |
|---------|--|----|
| EAS 211 | Statics | 4 |
| EAS 212 | Strength of Materials | 4 |
| EAS 215 | Dynamics | 4 |
| ME 213 | Properties of Materials | 4 |
| ME 241 | Manufacturing Processes | 4 |
| ECE 241 | Introduction to Electrical Engineering | 4 |
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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: 57

Junior year

| | | |
|----------|---|---|
| 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 |
| ME 370 | Mechanical Engineering Profession | 2 |
| Stat 451 | Applied Statistics for Engineers and Scientists I | 4 |
| Wr 327 | Technical Report Writing | 4 |
| Ec 314U | Private and Public Investment Analysis | 4 |

Subtotal: 47

Senior year

| | | |
|---------|---|---|
| ME 411 | Engineering Measurement and Instrumentation Systems | 4 |
| ME 411L | Engineering Measurement and Instrumentation Systems Lab | |
| ME 488 | Design of Experiments | 2 |
| ME 491 | Design Process | 2 |

| | | |
|--------|---|----|
| ME 492 | Conceptual Design Project | 4 |
| ME 493 | Detailed Design Project | 4 |
| | Approved mechanical engineering electives | 16 |

Subtotal: 32

Approved mechanical engineering electives.

The total may include any regular upper-division mechanical engineering course, except that no more than 4 credits be taken from:

| | | |
|--------|----------------------------------|------|
| ME 399 | Special Studies | 1-8 |
| 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 |

MECOP students are allowed 2 credits of ME 407.

HONORS TRACK

Entry Requirements

- Admission to the Mechanical Engineering Program
- Minimum overall GPA of 3.50
- Minimum GPA of 3.40 in upper-division engineering courses (16 credits minimum)
- Submission of an application to the Mechanical Engineering honors track

Each student participating in the Mechanical Engineering honors track will be assigned an honors adviser. The adviser will work with the student to complete a written proposal for the Honors Thesis research, to be conducted in a specialty area within mechanical engineering. The completed Honors Thesis research will be presented to Mechanical Engineering faculty and students in a seminar. The Honors Thesis, ME 403, may qualify as an approved mechanical engineering elective.

BACHELOR'S PLUS MASTER'S PATHWAY

Many students recognize the importance of continuing education beyond the Bachelor's degree. The Bachelor's Plus Master's Pathway shortens the time to complete both the Bachelor's and Master's degrees, and it is

more cost effective because graduate credits earned while still in the undergraduate program are charged at the undergraduate credit rate. The Pathway allows students enrolled in the PSU BSME program to apply up to 15 credits of their senior elective classes to both the BSME degree and any of the Master's programs offered by the MME department. To use the Pathway, students must maintain an undergraduate GPA of 3.3 and apply to the program before they graduate with their BSME.

Admission criteria

Students must apply to the Bachelor's Plus Master's Pathway while they are still enrolled in the BSME program using the form available on the MME web site. A GRE score is not required. The admission criteria for the program are as follows

- Currently enrolled in the BSME program
- Completed at least 12 credits of upper division ME classes
- Cumulative PSU GPA of at least 3.3
- Written recommendations by three of the MME faculty
- Submit a statement of purpose

Admission process and program flow

Applications for the Bachelor's Plus Master's Pathway are processed by the Graduate Program Director. Applications must be received before the student graduates with a BSME, but may be received as late as the last quarter before graduation with the BSME. After being accepted into the Bachelor's Plus Master's Pathway, the student selects graduate level courses (500 or 600 level) that will be applied to the student's BSME degree requirements. In the last term of enrollment in the BSME program, the student submits an abbreviated application form to indicate the intended Master's degree program. If the student admitted to the Pathway graduates with a GPA of 3.3 or better, no additional application to the graduate program is necessary. The student then completes the requirements for the BSME and graduates. When the student admitted to the Bachelor's Plus Master's Pathway matriculates into the graduate program, up to 15 credits of graduate level course work completed while an undergraduate will then be applied to the student's graduate program.

Students admitted to the Pathway who do not maintain a PSU GPA of 3.3 at graduation are not allowed the benefit of applying graduate credits to both their BSME senior elective requirements and to their graduate degree programs. A student in that situation can still reserve up to 15 graduate credits taken as an undergraduate for use in their graduate program. However, they must use the process specified by the graduate school to request that those courses be reserved. They must also not use those courses to meet degree requirements for the BSME.

Graduate programs

ADMISSION REQUIREMENTS

Master of Science in mechanical engineering

Applicants who have received a B.S. degree in mechanical engineering or closely related field from an accredited university, and meet university graduate admission requirements (p. 40), will be considered for admission to the Mechanical Engineering Department for regular admission. Conditional admission may be granted in exceptional cases.

Master of Engineering in mechanical engineering

Admission requirements for the M.Eng. degree are identical to those for the Master of Science in Mechanical Engineering.

Master of Science in materials science and engineering

For regular admission consideration, applicants should meet University graduate admission requirements found on page <?> and have received a B.S. degree in engineering or a related science field such as materials science, physics, or chemistry. Conditional admission may be granted in exceptional cases.

Doctor of Philosophy in mechanical engineering

A student applying to the Ph.D. program in mechanical engineering will normally be required to have completed an M.S. degree in mechanical engineering or a closely related field. Applicants will need to provide three letters of recommendation, a statement of purpose, a resume or curriculum vitae and scores on the GRE exam taken no more than 5 years before the date of application.

Additional admission requirements and details are published on the MME department web site at www.pdx.edu/mme/.

MECHANICAL ENGINEERING M.S.

The master's program in mechanical engineering gives the practicing engineer advanced professional opportunities and the student considering a career of research or university teaching a first level of graduate study. The program includes a core of required mechanical engineering courses, advanced mathematics courses, a selection of engineering electives, and supervised individual research.

The department supports research in microfluidics, fluid flow in microgravity, energy conservation in the built environment, manufacturing, materials science, electronic packaging, and engineering science. Current faculty research areas include energy systems, electronic cooling, dynamic systems modeling, computational mechanics, thermo-fluid systems, materials, and FEM applications in mechanical design.

See University master's degree requirements (p. 40). In addition, a candidate for the M.S. degree must complete at least 27 credits in mechanical engineering, excluding thesis or project.

Required core courses are ME 551 and one approved graduate math course. In addition, for the project/thesis options, ME 507 (one credit) and ME 501 or ME 503 must be taken. All students must submit a study plan approved by their adviser before the beginning of their third term with additional plans submitted at the request of their adviser.

The master's degree may be completed with one of two options. The thesis option requires 36 credits of course work and 9 credits of thesis (ME 503). The project option requires 36-39 credits of coursework and 6-9 credits of research project (ME 501). Student research is conducted under the supervision of faculty, and a final oral examination covering the thesis or project must be successfully completed. Coursework can include up to 17 credits in total from 501, 503, 504, 505, and 506, with a maximum of 9 credits of ME 501 or a maximum of 9 credits of ME 503. Students must choose either ME 501 and ME 503.

Students must complete ME 551, up to two credits of ME 507, and at least one approved, graduate-level mathematics course. By the beginning of their third term, all students must submit a study plan that is approved by their advisor. Updates to the study plan may be requested by the student's advisor, or the graduate committee.

MECHANICAL ENGINEERING M.E.

The Master of Engineering in Mechanical Engineering degree is a professional degree for students seeking to advance their skills of engineering applications. The program involves coursework only.

In addition to the University master's degree requirements (p. 40), a candidate for the M.Eng. degree must complete 45 graduate credits, including ME 551 and an approved graduate level course in mathematics or statistics. One credit of ME 507 may be included in the 45 credit total. Up to 6 credits of approved industrial experience can be applied toward the degree. No research project is required, but students can include up to 8 credits in total from ME 501, ME 503, ME 504, ME 505, and ME 506 in the 45 credits required for completion of the degree.

MATERIALS SCIENCE AND ENGINEERING M.S.

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 metallurgy, semiconductor materials, composites, welding and joining, photovoltaic manufacturing, and material testing. Current faculty research includes high strength alloys, electrosag welding technology, acoustic emission methods, modeling of molding and casting, chemical-mechanical planarization, and heat treatment.

In addition to meeting all University requirements for the M.S. degree (p. 40), the candidate must satisfy the following departmental requirements: (1) 45 graduate credits; (2) Core requirements of ME 513 or MSE 513 (depending on student background), MSE 547, MSE 515, MSE 525, and MSE 507; (3) A set of specialty courses approved by the Student Program

Committee; (4) Research yielding 6-9 credits; (5) Passage of the final oral examination. The student will be able to choose between a thesis option and a project option for the research component.

Each student is assigned an adviser upon acceptance to the program, and the adviser 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 adviser have chosen and to monitor overall program quality.

MECHANICAL ENGINEERING PH.D.

The Ph.D. 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 Ph.D. must meet the University requirements for the degree in addition to the requirements listed below.

In addition to the University doctoral degree requirements (p. 43), the program requirements include a minimum of 27 credit hours of coursework, a comprehensive examination, prospectus defense, 27 hours of dissertation credit and final dissertation defense. The 27 credits of coursework must consist of at least 16 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 departmental web site www.pdx.edu/mme/.

COLLEGE OF LIBERAL ARTS AND SCIENCES

Karen Marrongelle, Dean
Veronica Dujon, Associate Dean
Drake Mitchell, Associate Dean

Jennifer Chambers, Assistant Dean
Robert Mercer, Assistant Dean
Patrick Regan, Senior Director of
Development
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. 137), Applied Linguistics (p. 139), Biology (p. 143), Black Studies (p. 133), Chemistry (p. 147), Chicano/Latino Studies (p. 134), Communication (p. 150), Conflict Resolution (p. 152), Economics (p. **Error! Bookmark not defined.**), English (p. 153), Environmental Science and Management (p. 160), Geography (p. 165), Geology (p. 168), History (p. 172), Indigenous Nations Studies (p. 134), International & Global Studies (p. 177), Judaic Studies (p. 179), Mathematics and Statistics (p. 180), Philosophy (p. 186), Physics (p. 187), Psychology (p. 195), Science Education (p. 197), Sociology (p.

198), Speech and Hearing Sciences (p. 200), Systems Science (p. 130), Women, Gender, and Sexuality Studies (p. 135), and World Languages and Literatures (p. 204).

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. 176).)

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/undergraduate-programs.

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, Economics, English, Environmental Studies, Film Studies, Geographic Information Systems,

Geography, Geology, History, Indigenous Nations Studies, International Studies, Judaic Studies, Mathematics and Statistics, Medieval Studies, Philosophy, Physics, Psychology, Sociology, Sustainability, Women, Gender, and Sexuality Studies, World Languages and Literatures, 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.

COMPUTER APPLICATIONS MINOR—COLLEGE-WIDE

The computer applications minor may accompany any departmental major. This minor is designed to encourage and emphasize the application of computer technology and to acquaint the student with hardware and software function and design appropriate to modern academic disciplines. The minor is tailored to the specific needs and interests of the student.

All students who declare this minor must coordinate their program through an assigned adviser in one of the following departments: Anthropology, Applied Linguistics, Biology, Chemistry, Communication, Economics, English, Geography, Geology, History, Mathematics and Statistics, Physics, Psychology, Sociology, or World Languages and Literatures. Selection of a department constitutes a student's declared emphasis.

REQUIREMENTS

Courses

Three lower-division, adviser-approved computer science courses selected from, but not restricted to, the following:

| | | |
|--------|---|------|
| CS 105 | Computing Fundamentals I | 4 |
| CS 106 | Computing Fundamentals II | 4 |
| CS 107 | Computing Fundamentals III | 4 |
| CS 161 | Introduction to Programming and Problem-Solving | 4 |
| CS 162 | Introduction to Computer Science | 4 |
| CS 163 | Data Structures | 4 |
| CS 199 | Special Studies | 0-12 |
| CS 201 | Computer Systems | 4 |

| | | |
|-----------------------|---|----|
| | Programming | |
| CS 202 | Programming Systems | 4 |
| CS 250 | Discrete Structures I | 4 |
| Also required: | | |
| | Four adviser-approved courses in advanced computer applications | 12 |
| | A one-term, adviser-approved senior practicum or seminar | 3 |
| | Adviser-approved, upper-division research project | 3 |

Adviser-approved courses in advanced computer applications: must include at least 3 credits outside the student's major department. These courses may come from any unit in the University but may not include 405 reading/conference courses

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, International Studies, 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.

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 college courses on their own campuses.

Students who have a 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 English, French, Spanish, History, Mathematics, and Computer Science. Course content is identical 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>.

LINK Young Scholars Program

The Leap Into New Knowledge (LINK) Program provides a scholarship and support for selected gifted high school students to attend the University for part-time advanced study. The program is designed to serve those students who have exhausted all coursework in a particular discipline at their high schools and who have the maturity to navigate independently on a large college campus. To qualify for the program, students must be recommended to the University by their school and must successfully complete the LINK admissions process. First opportunity goes to high school seniors and those with economic need. Applications are due May 31 for the next academic year. More information and applications are available at <http://www.pdx.edu/link-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.

Master of Arts in Teaching and Master of Science in Teaching programs

In some departments, the Master of Arts in Teaching and the Master of Science in Teaching are intended both for current middle and high school level teachers wishing to complete a graduate degree focused in their content area and for those wishing to mix content courses in a discipline with graduate work in the Graduate School of Education. The specific requirements for each discipline, and whether it is appropriate for current middle or high school level teachers, are listed under the departments for which the M.A.T./M.S.T. option is available. (For the interdisciplinary options see Interdisciplinary Studies: Arts and Letters, Social Science (p. 176).)

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.

School of the Environment

B1-04 Science Research and Teaching Center (SRTC)
503-725-2070
www.pdx.edu/environment
environ@pdx.edu

- M.S. Systems Science
- Ph.D. Earth, Environment, & Society
- Ph.D. Systems Science
- Graduate Certificate in Computer Modeling and Simulation
- Graduate Certificate in Computational Intelligence
- Minor in Systems

The School of the Environment was formally established in 2009. This School is made up of four academic units (Environmental Science and Management, Geography,

Geology, and Systems Science), associated faculty from across the university, and several affiliated groups (USGS Oregon Water Science Center, the Institute for Natural Resources, and others). Multi-disciplinary research groups, institutes, and centers within the School support its efforts in problem-based research. The School of the Environment administers the Earth, Environment, & Society doctoral program, the Systems Science doctoral program, and the Systems Science master's program. For more information on the composition of the School, please see www.pdx.edu/environment.

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. A list of individual faculty research expertise and research groups is available on the School of the Environment website: <http://www.pdx.edu/environment>.

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

| | | |
|-------------|--|---|
| ESR 507/607 | 500/600-level seminars 6 terms | 6 |
| ESR 630 | Introduction to Transdisciplinary Modes of Critical Inquiry and Science in | 3 |

| | | |
|-----------------|---|----|
| ESR 655/ESM 555 | Environmental Research Science Communication | 1 |
| ESR 656/ESM 556 | Advanced Communication Skills for Doctoral Students | 1 |
| ESR 657/ESM 557 | Science, Media and the Public: Working with the Media to Create Effective Scientific Messages | 1 |
| Soc 694 | Analysis of the Impacts of Social and Management Practices on Ecosystem Services | 4 |
| ESR 603 | Departmental Dissertation | 27 |

Substitutions for the courses listed above may be granted by petitioning the SOE director.
Subtotal: 43

ADDITIONAL REQUIREMENTS

In addition to the general requirements, each student will be required to complete that coursework necessary to indicate competence in environmental science and management at the graduate level. These courses will be recommended by the student's Dissertation Committee and approved by the director of the School of the Environment.

Other requirements

Prior to advancement to candidacy, a student must take an Advisory Committee-approved course in statistics such as ESM 566, ESM 567, G 523, Geog 597 or other similar course subject to approval by the SOE director.

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 School of the Environment. 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 School of the Environment and through the constituent departments (ESM, Geography, Geology). For more information, please see www.pdx.edu/environment.

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.

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 to 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 99 graduate credit hours, which can include up to 32 hours of graduate credits completed at other institutions. 48 credits must be completed prior to comprehensive exams; 24 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 61 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 37 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 remaining 15 credits might be systems science labeled courses, by-arrangement credits, or courses from outside 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 72 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), 14 of which 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/syssc>.

MINOR IN SYSTEMS

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 |
| 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 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 413 | Holistic Strategies for Problem Solving | 4 |
| SySc 416 | Systems Thinking for Business | 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 452 | Game Theory | 4 |
| Subtotal: 24 | | |

School of Gender, Race, and Nations

150 Extended Studies Building (XSB)
www.pdx.edu/gender-race-nations/
sgrn@pdx.edu

- Graduate Certificate in Gender, Race, and Nations

Black Studies

150 Extended Studies Building (XSB)
 503-725-3472
www.pdx.edu/blackstudies

Chicano/Latino Studies

150 Extended Studies Building (XSB)
 503-725-8499 or 503-725-3472
www.pdx.edu/chla

Indigenous Nations Studies

239 Extended Studies Building (XSB)
 503-725-9689
www.pdx.edu/nas

Women, Gender, and Sexuality Studies

150 Extended Studies Building (XSB)
 503-725-3516
www.pdx.edu/ws

The School of Gender, Race and Nations (SGRN) is comprised of four units: Black Studies, Chicano/Latino Studies, Indigenous Nations Studies, and Women, Gender, and Sexuality Studies. 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. The School is involved in hosting nationally recognized academics and activists; developing innovative collaborations; and strengthening community-based activism, academic exchanges and scholarship.

Black Studies

150 Extended Studies Building (XSB)
503-725-3472
www.pdx.edu/blackstudies

- B.A., B.S.—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. The primary focus is in the social sciences and liberal arts. The Department of Black Studies is devoted to the exploration and analysis of the history, politics, and culture of African people in the United States, the Caribbean, and Africa. It seeks to objectively explore the black experience, to illuminate the contributions of African people to world culture, and to provide an alternative to traditional approaches to the study of world history that have bypassed the African experience.

The objectives of the Department of Black Studies include providing comprehensive learning programs aimed at greater understanding by all people of the black experience, past, present, and future.

The Department of Black Studies seeks to expose students from all cultural, religious, and ethnic backgrounds to academic experiences beyond those generally found in traditional college curricula.

The program will provide students with a general historical background of the black experience in Africa and the Western hemisphere, as well as provide detailed examination of cross-cultural and multi-ethnic dynamics in the contemporary social-political context.

In addition, this program will enhance the students ability to function in current job markets that serve multi-cultural and multi-ethnic populations, particularly where the black experience is crucial. It will also give students a competitive advantage in obtaining careers in those areas and within communities that interact with African, African American, and Caribbean cultures.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Black Study'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. 5) 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.

Core courses

(Adviser-approved credits in other disciplines. May also include upper-division Black Studies courses outside area of specialization)

| | | |
|---------|---|----|
| BSt 202 | Introduction to Black Studies | 4 |
| | Lower Division Black Studies courses | 12 |
| | Upper-division electives in Black Studies | 32 |
| | Adviser approved non-Black Studies | |
| | Upper-division electives | 12 |

Upper Division electives in Black Studies: selected in consultation with major adviser and spread over the geographic and thematic specializations of Africa; African-American (USA), Caribbean/Latin America

Elective Courses

(Adviser-approved credits in other disciplines. May also include upper-division Black Studies courses outside area of specialization)

| | | |
|----------|--|---|
| Fr 435 | Francophone Literature of the 20th Century | 4 |
| Geog 363 | Africa | 4 |
| Mus 374 | World Music | 4 |

| | | |
|----------|--|---|
| Soc 337 | Minorities | 4 |
| WS 330 | Women of Color in the United States | 4 |
| Intl 471 | Understanding the International Experience | 4 |
| Ling 471 | Understanding the International Experience | 4 |

Subtotal: 12

Subtotal: 60

- A maximum of 16 lower division credits in Black Studies may be applied to the major
- Of the 32 upper division Black Studies electives a minimum of 4 credits must be taken from each of the three areas of specialization within the department: Africa, African-American (USA), Caribbean/Latin America
- Of the upper division Black Studies electives a minimum of 24 credits must be taken under the graded option
- Upper division Black Studies courses may be substituted for some or all of the non-black studies electives requirement with Adviser approval

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 PSU), to include the following:

Two courses chosen from: (8)

| | | |
|----------|---|---|
| BSt 203 | Introduction to African American History | 4 |
| BSt 204 | Introduction to African American History | 4 |
| BSt 206 | Introduction to Caribbean Studies | 4 |
| BSt 211A | Introduction to African Studies | 4 |
| BSt 221 | Introduction to African American Literature | 4 |

Three courses chosen from (12)

| | | |
|------------------|---|---|
| BSt 302 | African American Experience in the 20th Century | 4 |
| BSt 305/Hst 312 | African History, Before 1800 | 4 |
| BSt 306/Hst 313 | African History, 1800-Present | 4 |
| BSt 362/Anth 362 | African Prehistory | 4 |
| BSt 412 | Oregon African American History | 4 |
| BSt 413 | Slavery | 4 |

| | | |
|--------------|---|---|
| BSSt 414 | Racism | 4 |
| BSSt 419 | African American Women in America | 4 |
| BSSt 421 | African American Writers | 4 |
| BSSt 424 | African American/African Culture in Cinema | 4 |
| BSSt 430 | African American Political Thought | 4 |
| BSSt 440 | Caribbean Studies | 4 |
| BSSt 470 | African Art | 4 |
| BSSt 484 | African American Community Development | 4 |
| | Eight adviser-approved credits chosen from related courses within departments in the College of Liberal Arts and Sciences | 8 |
| Subtotal: 28 | | |

CENTER FOR BLACK STUDIES

150 Extended Studies Building (XSB)
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 Extended Studies Building (XSB)

503-725- 8499 or 503-725-3472
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. 5) 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 301 | Chicano/Latino Communities | 4 |
| ChLa 302 | Survey of Chicano/Latino Literature | 4 |
| ChLa 303 | 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 326/Hst 326 | Mexican American/Chicano History II, 1900-Present | 4 |
| ChLa 330 | Latino Popular Culture | 4 |
| ChLa 375 | Southwestern Borderlands | 4 |
| ChLa 380 | Latinos in the Economy and Politics | 4 |
| ChLa 390 | 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 450 | Latinos in Education | 4 |
| Subtotal: 28 | | |

Indigenous Nations Studies

239 Extended Studies Building (XSB)
503-725-9689

www.pdx.edu/nas/

- Minor in Indigenous Nations Studies

Indigenous Nations Studies (INS) is an interdisciplinary program with coursework drawn from Anthropology, English, History, Public Administration, Social Work, and other departments and schools. The substantive focus of this curriculum is the

histories and cultures of American Indians, Alaska natives, and Native Hawaiians.

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the program is based on general admission to the University. See Admissions Requirements (p. 5) 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 Native Americans and who wish to combine the study of Native Americans with their major;
- students who plan careers in Indian or native affairs;
- students who have a nascent interest in Native Americans and wish to fulfill their general education requirements with courses in this area.

The objective of the internship requirement is to place INS students in community or government organizations so that each student has an opportunity to acquire understanding of Native issues.

For information and advising, contact director Cornel Pewewardy at cornelp@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 313 | Indian-White Relations | 4 |
| Anth 314 | Native Americans | 4 |
| Anth 364 | The Archaeology of the Pacific Northwest | 4 |
| Anth 365 | The Archaeology of North America | 4 |
| Anth 366 | The Archaeology of | 4 |

| | | |
|--------------|--|---|
| | Mesoamerica | |
| Anth 417 | Advanced Topics in Native American Studies | 4 |
| Anth 422 | Contemporary American Indian Policy | 4 |
| Anth 464 | Topics in Northwest Archaeology | 4 |
| Eng 305 | Topics in Film | 4 |
| Eng 309 | American Indian Literature | 4 |
| Hst 330 | Native Americans of Eastern North America | 4 |
| Hst 331 | Native Americans of Western North America | 4 |
| Hst 349 | 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 | | |

Women, Gender, and Sexuality Studies

150 Extended Studies Building (XSB)
1633 SW Park Ave.
503-725-3516
www.pdx.edu/ws/

- B.A., B.S.—Women's 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. Courses offered through many different disciplines explore how gender has shaped social, economic, and political institutions, culture, and language. Through

these analyses, we envision what the world looks like once women's experience is fully included in our thinking. The Women, Gender, and Sexuality Studies core curriculum 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.

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. A degree in Women's Studies provides the foundation 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See page for Admissions Requirements (p. 5) 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.

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 306 | Global Gender Issues | 4 |
| WS 308 | Topics in Gender, Literature, and Popular Culture | 4 |
| WS 310 | Psychology of Women | 4 |
| WS 312 | Feminist Philosophy | 4 |
| WS 317 | Writing as Activism | 4 |
| WS 330 | Women of Color in the United States | 4 |
| WS 331/Intl 331 | Women in the Middle East | 4 |
| WS 332 | Race, Class, Gender, and Sexuality in the United States | 4 |
| WS 337 | Communication and Gender | 4 |
| WS 340 | Women and Gender in America to 1848 | 4 |
| WS 341 | Women and Gender in America 1848-1920 | 4 |
| WS 342 | Women and Gender in the U.S. 1920 to the Present | 4 |
| WS 343 | American Family History | 4 |
| WS 346/Bi 346 | Genes & Society | 4 |
| WS 347/Sci 347 | Science, Gender, and Social Context | 4 |
| WS 348/Sci 348 | Science, Gender, and Social Context | 4 |

| | | |
|-----------------|---|-----|
| WS 351 | Gender and Education | 4 |
| WS 360 | Introduction to Queer Studies | 4 |
| WS 365/Sci 365 | The Science of Women's Bodies | 4 |
| WS 370 | History of Sexualities | 4 |
| WS 372/Eng 372 | Topics in Literature, Gender, and Sexuality | 4 |
| WS 375 | Topics in Sexuality Studies | 4 |
| WS 377 | Topics in Feminist Spirituality | 4 |
| WS 380 | 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 | Gender & Mental Health | 4 |
| WS 428 | Lesbian History | 4 |
| WS 431/ArH 431 | Women in the Visual Arts | 4 |
| WS 443 | British Women Writers | 4 |
| WS 444 | British Women Writers | 4 |
| WS 445 | American Women Writers | 4 |
| WS 446 | American Women Writers | 4 |
| WS 452/Comm 452 | Gender and Race in the Media | 4 |
| WS 467 | Work and Family | 4 |
| WS 470 | 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 |
| Subtotal: 56 | | |

WOMEN'S STUDIES MINOR

REQUIREMENTS

A minor in Women's Studies will consist of 28 credits. Students will be required to take:

1. Core curriculum of three courses: 12 credits
2. Four elective courses: 16 credits.

Core Courses (12 credits)

Students are required to take 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. 136)), 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 332 | Race, Class, Gender, and | 4 |

| | | |
|--------|--------------------------------|---|
| | Sexuality in the United States | |
| WS 360 | Introduction to Queer Studies | 4 |
| WS 370 | 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 342 | Black Feminism/Womanism | 4 |
| CFS 390 | Sex and the Family | 4 |
| Comm 452/WS 452 | Gender and Race in the Media | 4 |
| Comm 410 | Sex and the Media | 4 |
| Eng 372/WS 372 | 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 Culture | 4 |
| PHE 335 | 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 369 | Philosophy of Sex and Love | 4 |
| Psy 410 | Human Sexualities | 4 |
| Psy 431 | Psychology of Men and Masculinities | 4 |
| Soc 339 | Marriage and Intimacy | 4 |
| Soc 344 | Gender and Sexualities | 4 |
| Span 410U | Selected Topics | 4 |
| Span 436 | Major Topics: Latin American Multiple Genres | 4 |
| WS 308 | Topics in Gender, Literature, and Popular Culture | 4 |
| WS 372/Eng 372 | Topics in Literature, Gender, and Sexuality | 4 |
| WS 375 | Topics in 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.

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 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

persons 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 |
| Stat 244 | Introduction to Probability and Statistics II | 4 |
| | Upper-division anthropology electives 6 courses (see below) | 24 |

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 8 of the 24 credits must be in formally numbered 400-level courses (i.e., not including Anth 401, Anth 404, Anth 405, Anth 407, Anth 410). Note: In exceptional circumstances, the department may permit a student to apply a maximum of one lower-division course to the upper-division elective requirement.

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 |

(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. 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. Under these circumstances, the master's degree, including research and thesis, may be completed in two to three years. The undergraduate major is not required, however, for admission to the program. In the latter case, completion of the degree may require a more extended period of study. Students without an adequate background in anthropology will be required to take certain 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 sent directly 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 | 4 |
|----------|-------------------------------------|---|

| | | |
|----------|---|----|
| Anth 550 | Anthropology Core Seminar in Archaeology | 4 |
| Anth 570 | Core Seminar in Physical Anthropology 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 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 of 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 analytical 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 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/undergraduate-programs.

APPLIED LINGUISTICS B.A.

Admission requirements

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 or Phonology | 4 |
| Ling 412 | Phonology | 4 |
| Ling 414 | Linguistic Pragmatics or Discourse Analysis | 4 |
| Ling 416 | Discourse Analysis | 4 |
| Ling 415 | Linguistic Phonetics | 4 |
| Ling 435 | Theories and Practice in Applied Linguistics | 4 |
| Ling 437 | First Language Acquisition or Second Language Acquisition | 4 |
| Ling 438 | Second Language Acquisition | 4 |

NOTE: Students should consult with the departmental undergraduate advisor to determine which of the paired options above is the 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 advisor to determine which options are most appropriate for them. At least 8 of the 16 elective credits are required to be from PSU Ling courses. For a course not taken in PSU Ling to count towards the major, students must get approval from the chair or the departmental undergraduate adviser.

Here, we list the three focus options

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 |
|----------|------------------|---|

Choose the remaining 12 credits from:

(Take the option not taken as a required course)

| | | |
|----------|---|---|
| Ling 409 | Community Activism Practicum | 4 |
| 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 | or Selected Topics | 4 |

Ling 410 requires prior adviser approval.

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.

(Take the option not taken as a required course)

Required

| | | |
|----------|-----------|---|
| Ling 411 | Syntax | 4 |
| | or | |
| Ling 412 | Phonology | 4 |

Choose the remaining 12 credits from:

| | | |
|----------|---|---|
| Ling 414 | Linguistic Pragmatics | 4 |
| | or | |
| Ling 416 | Discourse Analysis | 4 |
| Ling 418 | Linguistic Morphology | 4 |
| Ling 419 | Language Typology | 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 |
| | or | |
| Ling 410 | Selected Topics | 4 |
| Ling 490 | History of the English Language | 4 |

Ling 410 requires prior adviser approval.

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 Activism 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 |
| | or | |
| 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 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 410 | Selected Topics | 4 |
| 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 *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.

Graduate program

MASTER'S IN TEACHING OF ENGLISH TO SPEAKERS OF OTHER LANGUAGES (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 in order to be admitted.

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 the adviser.

In addition to the minimum graduate school requirements, students must have an adviser-approved program that meets the following criteria. (For those students who have completed the Certificate in TESL, certain 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 |

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 |

Choose 4 credits from the following courses:

| | | |
|----------|-----------|---|
| Ling 511 | Syntax | 4 |
| Ling 512 | Phonology | 4 |

Choose 8 credits from Language and Society and/or Language and the Mind

Students may choose one course from each group or take both courses from a single group. Depending on the topic, LING 510: Special Topics may be counted towards this requirement.

Language and Society

| | | |
|----------|---------------------|---|
| Ling 532 | Sociolinguistics | 4 |
| Ling 580 | Bilingualism | 4 |
| Ling 581 | World Englishes | 4 |
| Ling 582 | Pidgins and Creoles | 4 |

Language and Mind

| | | |
|----------|-----------------------------------|---|
| Ling 533 | Psycholinguistics | 4 |
| Ling 537 | First Language Acquisition | 4 |
| Ling 545 | Linguistics and Cognitive Science | 4 |

3. Research Courses and Culminating Experience Credits

Research Courses

| | | |
|----------|---|---|
| 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

| | |
|---------------------------|---|
| Ling thesis/project/exams | 6 |
| Subtotal: 48 | |

Culminating Experience: In consultation with their adviser, students choose one of three options.

- (1) Thesis. The thesis requires students to conduct an empirical analysis of data that they have gathered to answer a research question that deals with a specific aspect of TESOL or applied linguistics. Students in the Thesis option must take 6 credits of Ling 503 (Thesis).
- (2) Project. The project addresses a practical problem 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 in 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 written comprehensive examinations synthesize theoretical and practical knowledge covered in the program. Students in the Exam option must take 4 credits of Ling 507 (Seminar: Research Writing) and 2 credits of Ling 501 (Research: Comprehensive Exams).

The thesis, project, and comprehensive exams will conform to current departmental guidelines for details such as thesis proposal meetings, exam scoring, and formatting of the project. 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 Language Education/Applied Linguistic Theory, Foundations in Language/ Linguistic Theory, Language and Society/ Mind, depending on course content, as determined by the student's adviser.

Additionally, the department requires at least two years' study of a language in addition to the student's native language or an equivalent level of proficiency. 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 this graduation requirement while working on the M.A. (though doing so will lengthen the time to 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 Oregon University System maintains the Institute of Marine Biology near Coos Bay and The Hatfield Marine Sciences Center in Newport on the Oregon coast. 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, Oregon Health Sciences University, Oregon National Primate Research Center, Oregon Museum of Science and Industry (OMSI), and the Oregon Department of Fish and Wildlife.

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 | 1 |

| | | |
|----------|---|-----|
| Ch 228 | Laboratory General Chemistry | 1 |
| Ch 229 | Laboratory General Chemistry | 1 |
| Ch 331 | Elements of Organic Chemistry I | 4 |
| Ch 334 | 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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| 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 I | 4 |
| Bi 212 | Principles of Biology II | 4 |
| Bi 213 | Principles of Biology III | 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 | 2 |
| 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 | Recombinant DNA Techniques 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) |
| 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) to. Courses must include three terms of science majors' introductory biology with laboratory (Bi 251, Bi 252, Bi 253) 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 I | 4 |
| Bi 212 | Principles of Biology II | 4 |
| Bi 213 | Principles of Biology III | 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 (12-15 credits)

| | | |
|-----------------------------------|--------------------------|---|
| 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: S. 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, to 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 | 9 |
| 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 18
as approved by adviser

Subtotal: 57

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. 32), 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 also submit an application directly to the Biology department using the online form found on the department's 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. 40). 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. 97) 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 Extended Studies Building (XSB)
503-725-3472
www.pdx.edu/blackstudies

- B.A., B.S.—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. The primary focus is in the social sciences and liberal arts. The Department of Black Studies is devoted to the exploration and analysis of the history, politics, and culture of African people in the United States, the Caribbean, and Africa. It seeks to objectively explore the black experience, to illuminate the

contributions of African people to world culture, and to provide an alternative to traditional approaches to the study of world history that have bypassed the African experience.

The objectives of the Department of Black Studies include providing comprehensive learning programs aimed at greater understanding by all people of the black experience, past, present, and future.

The Department of Black Studies seeks to expose students from all cultural, religious, and ethnic backgrounds to academic experiences beyond those generally found in traditional college curricula.

The program will provide students with a general historical background of the black experience in Africa and the Western hemisphere, as well as provide detailed examination of cross-cultural and multi-ethnic dynamics in the contemporary social-political context.

In addition, this program will enhance the students ability to function in current job markets that serve multi-cultural and multi-ethnic populations, particularly where the black experience is crucial. It will also give students a competitive advantage in obtaining careers in those areas and within communities that interact with African, African American, and Caribbean cultures.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Black Study'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. 5) 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.

Core courses

(Adviser-approved credits in other disciplines. May also include upper-division Black Studies courses outside area of specialization)

| | | |
|---------|---|----|
| BSt 202 | Introduction to Black Studies | 4 |
| | Lower Division Black Studies courses | 12 |
| | Upper-division electives in Black Studies | 32 |
| | Adviser approved non-Black Studies | |
| | Upper-division electives | 12 |

Upper Division electives in Black Studies: selected in consultation with major adviser and spread over the geographic and thematic specializations of Africa; African-American (USA), Caribbean/Latin America

Elective Courses

(Adviser-approved credits in other disciplines. May also include upper-division Black Studies courses outside area of specialization)

| | | |
|----------|--|---|
| Fr 435 | Francophone Literature of the 20th Century | 4 |
| Geog 363 | Africa | 4 |
| Mus 374 | World Music | 4 |
| Soc 337 | Minorities | 4 |
| WS 330 | Women of Color in the United States | 4 |
| Intl 471 | Understanding the International Experience | 4 |
| Ling 471 | Understanding the International Experience | 4 |

Subtotal: 12

Subtotal: 60

- A maximum of 16 lower division credits in Black Studies may be applied to the major
- Of the 32 upper division Black Studies electives a minimum of 4 credits must be taken from each of the three areas of specialization within the department: Africa, African-American (USA), Caribbean/Latin America
- Of the upper division Black Studies electives a minimum of 24 credits must be taken under the graded option

- Upper division Black Studies courses may be substituted for some or all of the non-black studies electives requirement with Adviser approval

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 PSU), to include the following:

Two courses chosen from: (8)

| | | |
|----------|---|---|
| BSt 203 | Introduction to African American History | 4 |
| BSt 204 | Introduction to African American History | 4 |
| BSt 206 | Introduction to Caribbean Studies | 4 |
| BSt 211A | Introduction to African Studies | 4 |
| BSt 221 | Introduction to African American Literature | 4 |

Three courses chosen from (12)

| | | |
|------------------|---|---|
| BSt 302 | African American Experience in the 20th Century | 4 |
| BSt 305/Hst 312 | African History, Before 1800 | 4 |
| BSt 306/Hst 313 | African History, 1800-Present | 4 |
| BSt 362/Anth 362 | African Prehistory | 4 |
| BSt 412 | Oregon African American History | 4 |
| BSt 413 | Slavery | 4 |
| BSt 414 | Racism | 4 |
| BSt 419 | African American Women in America | 4 |
| BSt 421 | African American Writers | 4 |
| BSt 424 | African American/African Culture in Cinema | 4 |
| BSt 430 | African American Political Thought | 4 |
| BSt 440 | Caribbean Studies | 4 |
| BSt 470 | African Art | 4 |
| BSt 484 | African American Community Development | 4 |

Eight adviser-approved credits chosen from related courses within departments in the College of Liberal Arts and Sciences

Subtotal: 28

CENTER FOR BLACK STUDIES

150 Extended Studies Building (XSB)

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/chem/
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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 |
| | or | |
| Ch 411 | Advanced Inorganic Chemistry I | 4 |
| | or | |
| Ch 412 | Advanced Inorganic Chemistry II | 4 |
| Ch 440 | Physical Chemistry I | 4 |
| Ch 441 | Physical Chemistry II | 4 |
| Ch 442 | Physical Chemistry III | 4 |
| 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 |
| | Calculus through Mth 253 or equivalent | 12 |
| Option II: Biochemistry | | |
| 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 440 | Physical Chemistry I | 4 |
| Ch 441 | Physical Chemistry II | 4 |
| Ch 426 | Instrumental Analysis | 4 |
| Ch 427 | Instrumental Analysis Laboratory | 4 |
| Ch 490 | Biochemistry: Structure and Function | 4 |
| 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 |
| | Calculus through Mth 253 or equivalent | 12 |
| | One year of physics with calculus with laboratory | 15 |
| Bi 211 | Principles of Biology I | 4 |
| Bi 212 | Principles of Biology II | 4 |
| Bi 213 | Principles of Biology III | 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 490 requires the Ch 334, Ch 335, Ch 336 Organic Chemistry sequence as a prerequisite.

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.

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 400-level chemistry electives include Ch 411, Ch 490 (or Ch 350), and a lab course that includes at least 30 clock hours (including Ch 401 and Ch 406).

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.

CHEMISTRY MINOR

REQUIREMENTS

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.

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 |

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) | 4 |
| Ph 212 | General Physics (with Calculus) | 4 |
| Ph 213 | General Physics (with Calculus) | 4 |
| | And | |
| Ph 204L | Lab for Ph 201 | 1 |
| Ph 205L | Lab for Ph 202 | 1 |
| Ph 206L | Lab for Ph 203 | 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 page Admissions Requirements (p. 5) for more information. Students should also apply directly to the department. Contact our office or check the Web site, www.pdx.edu/chem/ for application forms and other information.

CHEMISTRY M.A./M.S.

See University master's degree requirements (p. 40). 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 Extended Studies Building (XSB)
503-725- 8499 or 503-725-3472
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. 5) 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 | Introduction to Chicano/Latino Studies | 4 |
| ChLa | Chicano/Latino Communities | 4 |
| ChLa | Survey of Chicano/Latino Literature | 4 |
| ChLa | Chicana/Latina Experience | 4 |

Upper Division Electives (12 credits)

One 400-level course and two other from the following:

| | | |
|----------|---|-----|
| ChLa | Mexican American/Chicano History I, 1492-1900 | 4 |
| ChLa | Mexican American/Chicano History II, 1900-Present | 4 |
| ChLa 330 | Latino Popular Culture | 4 |
| ChLa 375 | Southwestern Borderlands | 4 |
| ChLa 380 | Latinos in the Economy and Politics | 4 |
| ChLa 390 | Latinos in the Pacific Northwest | 4 |
| ChLa 399 | Special Studies | 1-8 |
| ChLa 405 | Reading and Conference | 1-8 |
| ChLa 407 | Seminar | 1- |

| | | |
|--------------|--------------------------------|-----|
| ChLa 408 | Workshop | 8 |
| ChLa 410 | Selected Topics | 1-8 |
| ChLa 411 | Chicano/Latino History Seminar | 4 |
| ChLa 414 | Chicano/Latino Literature | 4 |
| ChLa 450 | Latinos in Education | 4 |
| Subtotal: 28 | | |

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 333 for a total of 64 credits.

Courses

| | | |
|-------------------------|---|----|
| Comm 200 | 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 333 | Advanced Composition | 4 |
| Subtotal: 64 | | |

Of the 44 credits of communication electives,

- At least 36 must be in upper-division communication studies courses, of which
- At least 16 must be in course 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.

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 404 and 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, 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. 32) 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 you've completed one-third of the coursework. 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).

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 |
|----------|--------------------------------------|---|

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 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

239 Neuberger Hall (NH)
503-725-9175

www.pdx.edu/conflict-resolution/

- B.A., B.S.
- M.A., M.S.

The Bachelors of Arts/Sciences 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 both 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. Graduates from either program are prepared to design and evaluate conflict management systems for workplace and community organizations. 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 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.

The core skill set in both 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 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 strategies and processes at the organizational level of peace building and conflict transformation.

The programs' general divisions are as follows. The undergraduate program emphasizes #1 and #3, and the graduate program emphasizes #1 and #2:

1. Core conflict resolution theories, methods, and practices
2. International and intercultural conflict resolution
3. Peace and justice

Courses in conflict resolution are also offered in support of programs in other fields.

Undergraduate program

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/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 301 | Introduction to Conflict Resolution | 4 |
| CR 302 | Peace Studies | 4 |
| CR 307 | Conflict Management Skills | 4 |
| CR 310 | Fundamentals of Conflict Resolution | 4 |
| CR 311 | 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 303 | Consensus Building | 4 |
| CR 304 | Participating in Democracy | 4 |
| CR 305 | Ecology of War and Peace | 4 |
| CR 306 | 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**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.

See University master's degree requirements (p. 40). Specific program requirements are listed below.

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 | 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

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 adviser. 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 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 director 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.

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.

Subtotal: 9

Total Credit Hours: 63

English

405 Neuberger Hall (NH)
503-725-3521
www.pdx.edu/english

- B.A.—English
- B.A., B.S.—General Studies: Arts and Letters
- Minor in English
- Minor in Film Studies
- Minor in Writing
- Postbaccalaureate Certificate in Comics Studies
- M.A. in English
- M.A., M.S. in Writing
- M.F.A in Creative Writing

Certificates**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.

Various concentrations in literature and writing allow students flexible ways to combine interests in the literary arts with personal and professional goals. Community-based learning courses encourage students to integrate their academic skills with experience in the metropolitan area. 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. PSU graduates in English have gone on to succeed in advanced degree programs at many major universities.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for English'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. 5) for more information.

ENGLISH B.A.

REQUIREMENTS

In addition to meeting the general University B.A. and University Studies or Honors requirements, the English major will meet the following requirements for the B. A. degree:

Lower-division courses

Two courses selected from the following: (8 credits)

Eng 201 Introduction to Shakespeare 4

| | | |
|---------|------------------------------------|---|
| Eng 204 | Survey of English Literature | 4 |
| Eng 205 | Survey of English Literature | 4 |
| Eng 253 | Survey of American Literature | 4 |
| Eng 254 | Survey of American Literature | 4 |
| Eng 260 | Introduction to Women's Literature | 4 |
| Wr 200 | Writing About Literature | 4 |

Subtotal: 8

Upper-division courses

Theory (Group A)

| | | |
|---------|-----------------------------------|---|
| Eng 300 | Introduction to the English Major | 4 |
|---------|-----------------------------------|---|

Elective in criticism and practice (4 credits)

| | | |
|---------|---|---|
| Eng 414 | Contemporary Composition Theories | 4 |
| Eng 416 | History of Rhetoric | 4 |
| Eng 491 | History of Literary Criticism and Theory I | 4 |
| Eng 492 | History of Literary Criticism and Theory II | 4 |
| Eng 493 | Advanced Topics in Feminist Literary Theory | 4 |
| Eng 494 | Topics in Critical Theory and Methods | 4 |

Literatures of Ethnicity, Gender, Class, and Culture (Group B)

Electives (8 credits)

| | | |
|------------------|--|---|
| Eng 305 | Topics in Film | 4 |
| Eng 309 | American Indian Literature | 4 |
| Eng 330 | Jewish and Israeli Literature | 4 |
| Eng 351/BSSt 351 | African American Literature | 4 |
| Eng 352/BSSt 352 | African American Literature | 4 |
| Eng 353 | African American Literature | 4 |
| Eng 367 | American Literature and Culture | 4 |
| Eng 372/WS 372 | Topics in Literature, Gender, and Sexuality | 4 |
| Eng 373 | Topics in Literature, Race, and Ethnicity | 4 |
| Eng 387 | Women's Literature | 4 |
| Eng 420 | Caribbean Literature | 4 |
| Eng 421 | African Fiction | 4 |
| Eng 422 | African Fiction | 4 |
| Eng 441 | Advanced Topics in Renaissance Culture | 4 |
| Eng 443 | British Women Writers | 4 |
| Eng 444 | British Women Writers | 4 |
| Eng 445 | American Women Writers: 19th Century | 4 |
| Eng 446 | American Women Writers: 20th Century | 4 |
| Eng 467 | Advanced Topics: American Literature and Culture | 4 |

| | | |
|---------|--|---|
| Eng 469 | Advanced Topics in Asian-American Literature and Culture | 4 |
|---------|--|---|

Period Studies and British and American Literature (Group C)

12 credits, 3 courses total

One must be a Pre-1800 course and two courses must be 400-level

Pre-1800 courses

| | | |
|---------|---|---|
| Eng 301 | Topics: Shakespeare | 4 |
| Eng 311 | Tragedy | 4 |
| Eng 312 | Comedy and Satire | 4 |
| Eng 314 | The Epic | 4 |
| Eng 320 | The English Novel | 4 |
| Eng 340 | Medieval Literature | 4 |
| Eng 341 | Renaissance Literature | 4 |
| Eng 342 | Restoration and Eighteenth Century Literature | 4 |
| Eng 343 | Romanticism | 4 |
| Eng 360 | American Literature to 1865 | 4 |
| Eng 411 | English Drama | 4 |
| Eng 426 | Advanced Topics in Medieval Literature | 4 |
| Eng 430 | Sixteenth Century Literature | 4 |
| Eng 440 | Advanced Topics in Seventeenth Century Literature | 4 |
| Eng 441 | Advanced Topics in Renaissance Culture | 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 |

Other Group C courses

| | | |
|------------------|---------------------------------|---|
| Eng 313 | The American Short Story | 4 |
| Eng 321 | English Novel | 4 |
| Eng 344 | Victorian Literature | 4 |
| Eng 345 | Modern British Literature | 4 |
| Eng 351/BSSt 351 | African American Literature | 4 |
| Eng 352/BSSt 352 | African American Literature | 4 |
| Eng 353 | African American Literature | 4 |
| Eng 363 | American Literature 1865-1965 | 4 |
| Eng 364 | American Fiction I | 4 |
| Eng 365 | American Fiction II | 4 |
| Eng 366 | American Fiction | 4 |
| Eng 367 | American Literature and Culture | 4 |
| Eng 384 | Contemporary Literature | 4 |
| Eng 385 | Contemporary Literature | 4 |

| | | |
|---------|---|---|
| Eng 412 | English Drama | 4 |
| Eng 461 | Topics: American Literature to 1900 | 4 |
| Eng 464 | American Literature: 20th Century | 4 |
| Eng 467 | Advanced Topics: American Literature and Culture | 4 |
| Eng 475 | Advanced Topics in Victorian Literature | 4 |
| Eng 477 | American Poetry | 4 |
| Eng 478 | American Poetry | 4 |
| Eng 480 | Advanced Topics in Twentieth Century British Literature | 4 |
| Eng 484 | Modern Drama | 4 |
| Eng 485 | Contemporary Drama | 4 |
| Eng 486 | Contemporary American Novel | 4 |
| Eng 487 | Contemporary American Short Story | 4 |
| Eng 488 | Contemporary American Poetry | 4 |

Writing, Rhetoric, Composition, and Linguistics (Group D)

One upper-division writing course elective (4)

| | | |
|----------|---|---|
| Eng 331 | Introduction to Rhetoric and Composition Studies | 4 |
| Eng 413 | Teaching and Tutoring Writing | 4 |
| Eng 414 | Contemporary Composition Theories | 4 |
| Eng 415 | Research Methods in Rhetoric and Composition | 4 |
| Eng 416 | History of Rhetoric | 4 |
| Eng 425 | Practical Grammar | 4 |
| Eng 490 | Advanced Topics in Rhetoric and Composition Studies | 4 |
| Ling 390 | Introduction to Linguistics | 4 |
| Wr 300 | Topics in Composition | 4 |
| Wr 312 | Intermediate Fiction Writing | 4 |
| Wr 313 | Intermediate Poetry Writing | 4 |
| Wr 323 | Writing as Critical Inquiry | 4 |
| Wr 324 | Advanced Writing About Literature | 4 |
| Wr 327 | Technical Report Writing | 4 |
| Wr 328 | Media Editing | 4 |
| Wr 330 | Desktop Publishing I | 4 |
| Wr 333 | Advanced Composition | 4 |
| Wr 394 | Writing Careers for English Majors | 4 |
| Wr 400 | Advanced Topics in Composition | 4 |
| Wr 412 | Advanced Fiction Writing | 4 |
| Wr 413 | Advanced Poetry Writing | 4 |
| Wr 416 | Screenwriting | 4 |
| Wr 420 | Writing: Process and Response | 4 |
| Wr 425 | Advanced Technical Writing | 4 |

| | | |
|--------|---|---|
| Wr 426 | Document Design | 4 |
| Wr 427 | Technical Editing | 4 |
| Wr 428 | Advanced Media Writing | 4 |
| Wr 429 | Writing Computer Documentation | 4 |
| Wr 430 | Desktop Publishing II | 4 |
| Wr 456 | Forms of Nonfiction | 4 |
| Wr 457 | Personal Essay Writing | 4 |
| Wr 458 | Magazine Writing | 4 |
| Wr 459 | Memoir Writing | 4 |
| Wr 460 | Introduction to Book Publishing | 4 |
| Wr 461 | Book Editing | 4 |
| Wr 462 | Book Design Software | 4 |
| Wr 463 | Book Marketing | 4 |
| Wr 464 | Business of Book Publishing | 4 |
| Wr 465 | Intellectual Property and Copyright | 4 |
| | appropriate adviser-approved, upper-division course | 4 |

Wr 312, Wr 313, Wr 412, Wr 413, Wr 416, Wr 420 may be taken twice for credit.

Electives (Group E)

Any 300 or 400 level English or Writing Course (16 credits)

Subtotal: 52

Courses to be selected from any upper-division English or writing course.

ALTERNATE COURSES

English majors will be expected to choose their courses in consultation with their advisers. For upper-division coursework in the several groups, consult the following lists of acceptable courses:

The following courses, depending on their content, may fulfill major requirements in Groups A, B, C, and D. Students should consult specific offerings each term and meet with their adviser to have them approved:

Courses

| | | |
|---------|----------------------------------|------|
| Eng 305 | Topics in Film | 4 |
| Eng 399 | Special Studies | 1-5 |
| Eng 404 | Cooperative Education/Internship | 0-12 |
| Eng 407 | Seminar | 1-6 |
| Eng 410 | Selected Topics | 1-6 |
| Eng 447 | Major Forces in Literature | 4 |
| Eng 448 | Major Figures in Literature | 4 |

- Eng 300 Introduction to the English Major is the expected preparation for all 400-level courses in the English major.

- English 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. Wr 222 does not count toward the English major.
- Only courses in which a student receives a C or above can count for the English major.
- 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.
- A minimum of 24 credits in English and/or writing at PSU is required to graduate from PSU with a major in English.
- Only courses taken for a letter grade can count toward English major.
- Upper-division WLL Literature in Translation course may be used in English with adviser approval.
- Chiron courses will not count toward the English major or the Minors in English, Writing or Film Studies.

CREATIVE WRITING B.F.A.*

***This program is effective Fall 2015 pending approval by the Oregon Higher Education Coordinating Commission.**

ADMISSION REQUIREMENTS

Admission to the degree program is based on (a) general admission to the university. See University Admissions (p. 5) for more information, and (b) admission to the Creative Writing program, which includes submission of an Admissions Sample of creative writing (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: Required Courses, Fine Arts Courses, Writing Electives, Literature Electives, and a Senior Portfolio.

Literature Courses (16 credits)

| | | |
|---------|-------------------------------|---|
| Eng 204 | Survey of English Literature | 4 |
| Eng 205 | Survey of English Literature | 4 |
| Eng 253 | Survey of American Literature | 4 |
| Eng 254 | Survey of American Literature | 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 (e.g., prefixed Arch, ArH, Art, FILM, Mus, and TA.)

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 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.

Wr 312, Wr 313, Wr 412, Wr 413 may be repeated for credit.

Literature Electives (12 credits)

12 Eng credits of upper-division literature, each covering different centuries or eras. (With adviser approval, one upper-division WLL literature course may be applied to this requirement.)

Graduation Requirement

The Senior Portfolio is submitted for approval by 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. This statement should provide an overview and analysis of the development and revision of their portfolio work. (6-10 pages; and (b) Writing within a genre: 30-50 pages (fiction or nonfiction), or 20-30 pages (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.

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, Eng Wr 199, Eng 399, and/or Eng 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 credits (12 credits of which must be taken in residence at PSU).

- Sixteen credits must be taken at the upper-division level.
- 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 |
| | or | |
| FILM 135 | Classic Movies | 4 |
| Eng 304 | Critical Theory of Cinema | 4 |
| | 20 elective credits with at least 12 carrying numbers 300 or above | 20 |

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.

**SECONDARY EDUCATION
ENDORSEMENT (GTEP)**

English Students who complete a major in English and wish to teach English in secondary schools must be accepted into PSU's Graduate Teacher Education Program (p. 97) and complete specific requirements in both English and education.

The student must maintain a minimum 3.00 GPA in English and writing courses. Those who do not meet this GPA requirement may request that their adviser initiate proceedings for a special evaluation by the Department of English Teacher Education Committee.

Students must consult with an English Education adviser to learn the requirements for the initial teaching license.

Graduate Programs in English

The Department of English offers graduate work leading to the Master of Arts degree.

ADMISSION REQUIREMENTS

Application deadline January 3rd.

- 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.

ENGLISH M.A.

REQUIREMENTS

See University master's degree requirements (p. 40). 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 departmental adviser and the Director of the English M.A. Program. The student will have a choice of two tracks:

- The three-area, non-thesis option, emphasizing general coverage of literary material.
- The Qualifying Essay option, permitting more specialized research.

Students pursuing option I must choose one specialized area of study that will comprise a portion of their written exam; the rest of the exam will test their general knowledge of the field of English.

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 seminars may focus, for example, on a formal element, regional tradition, historical period, the works of a seminal writer or two, or a literary movement.

Prospective students must apply to the genre in which they want to focus: fiction, nonfiction, or poetry. Core workshops are taken in the student's primary genre, while writing electives allow students to explore

other genres. The degree requirements also include eight credits in literature, critical theory, or rhetoric and composition. 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 must 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. or B.S. degree from a regionally accredited college or university and a 3.25 GPA in undergraduate work. The application deadline is January 3. Applicants must submit the following:

Applicants must submit the following through the online application process found at English.pdx.edu/Eng_Admissions.php.

- A Departmental application form indicating the genre they will focus on: fiction, nonfiction, or poetry.
- One transcript from each post-secondary institution attended.
- A minimum of three letters of recommendation. These should come from individuals who can speak to your creative and intellectual work, and your ability to successfully undertake graduate work.
- A two-to-three-page, 1.5 spaced personal introduction describing the applicant's background as a writer, goals, and interest in this particular program.
- 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 for the Department application. 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 manuscript in the applicant's primary genre. 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. Previously published, 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 C.V. or resume 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.

REQUIREMENTS

| Courses | | |
|------------------|---------------------------------|-----------|
| Wr 521 | MFA Core Workshop in Fiction | 4 |
| Wr 522 | MFA Core Workshop in Poetry | 4 |
| Wr 523 | MFA Core Workshop in Nonfiction | 4 |
| WR 507 | Seminars | 8 |
| | Electives in Literature | 8 |
| | Writing electives | 8 |
| Wr 503 | Thesis | 8 |
| Subtotal: | | 48 |

Wr 521, Wr 522, Wr 523: Core Workshops are restricted to students admitted to the M.F.A. in the genre. Students will take the

Workshop in their genre no less than four times and no more than six times, to earn a minimum of 16 credits.

Wr 507 Seminars: (2 classes) Seminars may focus on a particular genre or be cross-genre. Recent topics have included Forms; Defamiliarization; Constraint-based Writing; Fragments; and, Aspects of Translation. MFA students in the genre have priority. All other MFA students may register. Seminars are open to MA and MS students and post-bacs, with instructor permission.

Electives in Literature: (2 classes, one of which may be in Critical Theory, Rhetoric and Composition)

Writing electives: (2 classes, one must be a workshop or seminar in the in the MFA program)

Wr 503 Thesis: (8 credit hours to be arranged)

M.F.A. students will complete 48 credit hours of coursework, with 40 credits in writing. They must also complete a creative thesis of high literary merit, pass a written examination based on the thesis and an adviser-approved list of 30-40 texts, and pass an oral examination based on the written examination and creative thesis. The M.F.A. curriculum consists of the core workshops: Wr 521 (Fiction), Wr 522 (Poetry), and Wr 523 (Nonfiction); two writing seminars; two electives in literature (one of which may be in critical theory or rhetoric and composition); two writing electives; and eight credits of work on the thesis. The M.F.A. core workshops are restricted to M.F.A. students in the genre. They may be taken six times for a total of 24 credits.

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 only; Jan 3rd for those also applying for both Fall admission and a Graduate Assistantship; Sept. 1st for Winter; Nov. 1st for Spring; and Feb. 1st for Summer.

Please note that all Graduate Assistantship applications, including Technical and Professional Writing, can only be accepted from fall term applicants, who must meet the January 3 deadline. Graduate Assistantships in Publishing are awarded only for one year, and only in the second year of the program; 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:

- Both a complete University graduate application and an online Department application. The Department application consists of 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 for the Department application. 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 Publishing, a writing sample of fifteen to thirty pages of written work demonstrating promise of success in the publications industry. Samples may be professional, academic, business, technical, or artistic. Applicants are also welcome to include samples of edited work (with a cover note detailing role), samples of books or other publications designed or published by the applicant (with appropriate notes), or other samples that demonstrate creativity, organization, and initiative in delivering words from authors to readers in any medium.(e.g., offprints, etc.). Previously published, single-authored work will be accepted. Writing samples should demonstrate mastery of basic craft and represent your best work regardless of whether or not it has been published.

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 and the Chair of the M.A./M.S. in Writing Committee. 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, ISQA).

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, including, e.g., Technical Publications Project Management, Writing for Presentations, Information Technology for Writers, Multimedia for PT Writers, Managing Web Communications, International Aspects of PTW, History of Business and Technical Writing, Legal Issues for Technical Writers, Public Relations Writing in Technical Industries, and many others. 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 & Production, Book Marketing, Book Selling, Publications Project Management, PT Editing, Workshops in Publication Technologies, Writing Seminars, Selected Topics, Internship), technical communication (e.g., Writing Computer Documentation, Writing for Presentations, Information Technology for Writers, 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 PTW adviser).

Possible specializations outside the field of writing include business administration (management, marketing/public relations), communication (speech), computer science, environmental sciences and resources, and information systems. 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.

In consultation with the School of Business Administration, for example, M.S. advisers have identified the following series of courses that would well serve technical communicators in the workforce:

| | | |
|--------------|-----------------------------------|---|
| Mktg 548 | New Products Management | 4 |
| Mktg 552 | eServices Marketing | 4 |
| Mktg 555 | Technology Marketing | 4 |
| Mgmt 544 | Technology Management | 4 |
| Mgmt 545 | Managing Innovation Performance | 4 |
| Mgmt 556 | Organizational Politics and Power | 4 |
| 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 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 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 565 | Intellectual Property and Copyright | 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)
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 Hydrology
- M.S., M.E.M., P.S.M.
- Ph.D.

Environmental science and management is the study of the interactions between 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. Environmental Science and Management Department is in the School of the Environment.

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See page Admissions Requirements (p. 5) 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 I | 4 |
| Bi 212 | Principles of Biology II | 4 |
| Bi 213 | Principles of Biology III | 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 Economics of Environmental Issues | 4 |
| Ec 332 | Economics of Environmental Issues | 4 |
| G 201 | Dynamic Earth: Interior Geology Laboratory | 3 |
| G 204 | Geology Laboratory | 1 |
| G 202 | Dynamic Earth: Surface Geology Laboratory | 3 |
| G 205 | Geology Laboratory | 1 |

| | | |
|----------|---|-----|
| Ph 201 | or General Physics | 4 |
| Ph 214 | Lab for Ph 201 or Ph 211 or Ph 221 | 1 |
| Ph 211 | or General Physics (with Calculus) | 4 |
| Ph 214 | Lab for Ph 201 or Ph 211 or Ph 221 | 1 |
| Geog 210 | or Physical Geography | 4 |
| Mth 251 | Calculus I | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Stat 243 | Introduction to Probability and Statistics I | 4 |
| Stat 244 | And Introduction to Probability and Statistics II | 4 |
| Stat 243 | or Introduction to Probability and Statistics I | 4 |
| ESM 340 | And 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 | Analysis of Environmental Systems I | 4 |
| ESM 321 | Analysis of 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 prerequisite courses in natural sciences (biology, chemistry and physical geography) and some prerequisite courses in the social sciences (geography, economics and environmental policy).

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 Studies major requirements, whether taken in the department or in other departments, must be graded C- or above.

Orientation and career readiness

| | | |
|---------|--|---|
| ESM 150 | Orientation to Environmental Sciences and Management | 1 |
| ESM 407 | Environmental Seminar | 1 |

Subtotal: 2

EVST Foundation courses

| | | |
|---------|--------------------------------------|---|
| Bi 212 | Principles of Biology II | 4 |
| | And | |
| Bi 213 | Principles of Biology III | 4 |
| | or | |
| Sci 341 | Biology Concepts and Applications I | 4 |
| | And | |
| Sci 342 | Biology Concepts and Applications II | 4 |
| Ec 332 | Economics of | 4 |

| | | |
|----------|--|---|
| ESM 230 | Environmental Issues 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 |
| Geog 345 | Resource Management | 4 |

Subtotal: 32-34

Bi 212 and Bi 213 require concurrent enrollment in 1-credit labs Bi 215 and Bi 216.

EVST 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 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 |

Subtotal: 26

Skills

Students must take a total of 20 credits of skill courses, including the following:

Quantitative Analysis (4)

4 credits from this list:

| | | |
|----------|--|---|
| Stat 243 | Introduction to Probability and Statistics I | 4 |
| Sci 314 | Environmental Statistics | 4 |
| ESM 340 | Research Methods in Environmental Science | 4 |

Subtotal: 4

Other skills courses

| | | |
|------------------|--|---|
| ESM 342 | Field Methods | 2 |
| Geog 380 | Maps and Geographic Information | 4 |
| Geog 488/USP 591 | Geographic Information Systems I: Introduction | 4 |
| Wr 327 | Technical Report Writing | 4 |

Subtotal: 16

ESM 342 may be repeated for a total of 4 credits.

Topical Areas (16)

Students must take at least 2 ESM 400-level courses and 2 Geog 400-level courses from an approved list of focus areas that is generated by the two departments (<http://www.pdx.edu/esm/environmental-studies>).

Any course taken to meet the core content requirement cannot be used to meet the topical area requirement.

Subtotal: 16

Total Credit Hours: 96-98

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; science, 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 | Analysis of Environmental Systems I | 4 |
| ESM 321 | Analysis of 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.

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.

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 including 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 332 | 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 | Global Environmental Economics | 4 |
| USP 490 | Green Economics and Sustainable Development | 3 |
| Ec 430 | Resource and Environmental Economics | 4 |
| ESM 357 | Business Solutions for Environmental Problems | 4 |

| | | |
|-------------------------------------|---|---|
| Social and Management Issues | | |
| Arch 367 | Fundamentals of Environmental Design | 4 |
| Geog 340 | Global Water Issues and Sustainability | 4 |
| Geog 345 | Resource Management | 4 |
| Geog 346 | World Population and Food Supply | 4 |
| Geog 347 | Environmental Issues and Action | 4 |
| Geog 442 | Sustainable Cities | 4 |
| Geog 465 | Tuscany: Sustainability in City and Country | 4 |
| Hst 339 | The Environment and History | 4 |
| Phl 310 | Environmental Ethics | 4 |
| PS 319 | Politics of the Environment | 4 |
| Sci 321 | Energy and Society I | 4 |
| Sci 322 | Energy and Society II | 4 |
| Soc 341 | Population Trends and Policy | 4 |
| Soc 465 | Environmental Sociology | 4 |
| USP 313 | Urban Environmental Issues | 4 |
| USP 325 | Community and the Built Environment | 4 |
| USP 419/Soc 441 | Population and Society | 4 |
| SySe 334 | Modeling Social-Ecological Systems | 4 |

| | | |
|--|---|---|
| Environmental and Ecological Issues | | |
| ESM 355 | Understanding Environmental Sustainability I | 4 |
| ESM 356 | 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 335 | Water in the Environment I | 4 |
| Sci 336 | Water in the Environment II | 4 |
| Sci 352 | 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 | 0-6 |
| ESM 404 | Cooperative Ed/Internship Sustainability Minor | 6 |

(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. 130) in the School of the Environment.

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 course work 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.
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 |
| 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 | 1-12 |
| 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>.

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.—see School of the Environment

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 is in the School of the Environment and participates in the Earth, Environment and Society (EES) Ph.D. Program. Over 100 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 310/Sci 333 | Climate and Water Resources | 4 |
| Geog 311 | Climatology | 4 |
| Geog 312 | Climate Variability | 4 |
| Geog 313 | Biogeography | 4 |
| Geog 314 | Severe Weather | 4 |
| Geog 320/G 374 | Geomorphic Processes | 4 |
| Geog 322 | Alpine Environments | 4 |
| Geog 333/Ph 333 | Weather | 4 |
| Geog 340 | Global Water Issues and Sustainability | 4 |
| Geog 407 | Seminar in Physical Geography | 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 331 | Geography of Globalization | 4 |
| Geog 332 | Urban Geography | 4 |
| Geog 345 | Resource Management | 4 |
| Geog 346 | World Population and Food Supply | 4 |
| Geog 347 | Environmental Issues and Action | 4 |
| Geog 348 | Cultural and Political Ecology | 4 |

| | | |
|----------|----------------------------|---|
| Geog 349 | 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 350 | Geography of World Affairs | 4 |
| Geog 351 | Pacific Northwest | 4 |
| Geog 352 | The Himalaya and Tibet | 4 |
| Geog 353 | Pacific Rim | 4 |
| Geog 354 | Europe | 4 |
| Geog 355 | Landscapes of Spain | 4 |
| Geog 356 | Russia and Its Neighbors | 4 |
| Geog 360 | Latin America | 4 |
| Geog 363 | Africa | 4 |
| Geog 364 | The Middle East | 4 |
| Geog 366 | Historical Geography of North America | 4 |
| Geog 368 | 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 380 | 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 | 4 |

| | | |
|------------------|---|---|
| Geog 485 | Applications of GIS 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 | Visualization of Spatial Data | 4 |
| Geog 497 | Spatial Quantitative Analysis | 4 |

Geog 380: 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 380 | 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

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 340 | Global Water Issues and Sustainability | 4 |
| ESM 220 | Introduction to Environmental Systems | 4 |

Adviser-approved courses (16 credits)

Students must take at least one 300-level course and two 400-level courses from these current offerings.

| | | |
|------------------|-------------------------------|---|
| Geog 310/Sci 333 | Climate and Water Resources | 4 |
| Geog 320/G 374 | Geomorphic Processes | 4 |
| Sci 335 | 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.

Students pursuing both the Geography major and the Water Resources Minor:

Courses presented for the minor must differ from the major by at least 12 credits.

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 380 | Maps and Geographic Information | 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 | Visualization of Spatial Data | 4 |
| Geog 497 | 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. 176))

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 in the School of the Environment (p. 129).

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.

GEOGRAPHY M.A./M.S.

See University master’s degree requirements (p. 40). 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.

GEOGRAPHY M.A.T./M.S.T.

For information on the Master of Arts in Teaching and the Master of Science in Teaching (Interdisciplinary Studies), see Interdisciplinary Studies M.A.T./M.S.T. (p. 177).

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
- Secondary Education Program
- M.A., M.S.
- M.A.T. and M.S.T. (Science/Geology)
- Ph.D.— School of the Environment

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 (51-52 credits):

| | | |
|-------|--|---|
| 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 or Computer Based 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 | Computer Applications and Information Technology | 5 |
| G 326 | Numerical Modeling of Earth Systems | 5 |

| | | |
|-------|----------------------------------|---|
| G 434 | Structural Geology and Tectonics | 5 |
| G 435 | Sedimentology and Stratigraphy | 5 |
| G 485 | Field Methods in Geosciences | 4 |

At least 16 credits of electives must be chosen from upper-division geology courses excluding:

| | | |
|----------------|--------------------------------------|---|
| G 301 | Geology for Engineers | 3 |
| G 340 | Life of the Past | 4 |
| G 341 | Geology of the Oregon Country | 4 |
| G 342 | Volcanoes and Earthquakes | 4 |
| G 344 | Geology and the National Parks | 4 |
| G 345 | Life in the Universe | 4 |
| G 346 | Exploring Mars | 4 |
| G 351 | Introduction to Oceanography | 4 |
| G 352 | Minerals in World Affairs | 4 |
| G 353 | Natural History of Dinosaurs | 4 |
| G 355 | Geosciences for Elementary Educators | 4 |
| G 374/Geog 320 | Geomorphic Processes | 4 |
| G 450 | Middle School Earth/Space Sciences | 4 |
| G 453 | Geology of the Pacific Northwest | 4 |
| G 454 | Cascade Volcanoes | 1 |

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.

Mathematics through calculus (16 credits):

| | | |
|---------|--------------------------------|-----|
| Mth 251 | Calculus I | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Mth 254 | Calculus IV | 4 |

Allied Sciences Courses

| | | |
|--------|---|-------|
| | One year of 200-level chemistry or equivalent with labs | 13-16 |
| Ph 201 | General Physics | 4 |
| Ph 202 | General Physics | 4 |
| Ph 203 | General Physics | 4 |

or

| | | |
|--------|---------------------------------|---|
| Ph 211 | General Physics (with Calculus) | 4 |
| Ph 212 | General Physics (with Calculus) | 4 |
| Ph 213 | General Physics (with Calculus) | 4 |

or

| | | |
|---------|---------------------------------|---|
| Ph 211 | General Physics (with Calculus) | 4 |
| Ph 212 | General Physics (with Calculus) | 4 |
| EAS 211 | Statics | 4 |

Ph 201, Ph 202, Ph 203: with labs

Ph 211, Ph 212, Ph 213: with labs

Courses taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling departmental major requirements.

Total Credit Hours: 110-115

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 |
| 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 340 | Life of the Past | 4 |
| G 341 | Geology of the Oregon Country | 4 |
| G 342 | Volcanoes and Earthquakes | 4 |
| G 344 | Geology and the National Parks | 4 |
| G 345 | Life in the Universe | 4 |
| G 346 | Exploring Mars | 4 |
| G 351 | Introduction to Oceanography | 4 |
| G 352 | Minerals in World Affairs | 4 |

| | | |
|----------------|--------------------------------------|---|
| G 353 | Natural History of Dinosaurs | 4 |
| G 355 | Geosciences for Elementary Educators | 4 |
| G 374/Geog 320 | Geomorphic Processes | 4 |

G 450 Middle School Earth/Space Sciences

G 453 Geology of the Pacific Northwest

G 454 Cascade Volcanoes

Up to 8 credits may be taken in upper-division math, science, or engineering.

Eight credits from the following courses:

| | | |
|----------------|----------------------------------|---|
| G 340 | Life of the Past | 4 |
| G 341 | Geology of the Oregon Country | 4 |
| G 342 | Volcanoes and Earthquakes | 4 |
| G 344 | Geology and the National Parks | 4 |
| G 345U | Life in the Universe | 4 |
| G 346 | Exploring Mars | 4 |
| G 352 | Minerals in World Affairs | 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 | 0-4 |
|---------|------------|-----|

Option 2

| | | |
|---------|---|---|
| Mth 111 | Introductory College Mathematics I | 4 |
| Mth 112 | Introductory College Mathematics II | 4 |
| | or passing the appropriate placement test | |
| | And | |
| 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 | 15 |
| 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 | 2 |

| | | |
|---------------------|---|---|
| G 322 | Environment: Methods Global Biogeochemical Cycles | 5 |
| G 324 | ComputerApplications and Information Technology | 5 |
| G 341 | 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 | ComputerApplications and Information Technology | 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 261 | General Astronomy | 4 |
| Ph 262 | General Astronomy | 4 |

Sixteen credits of electives selected from the following

(may include other elective courses pre-approved by the undergraduate adviser.):

| | | |
|----------------|--------------------------------|---|
| Ch 360 | Origins of Life on Earth | 4 |
| G 345 | Life in the Universe | 4 |
| G 346 | Exploring Mars | 4 |
| G 374/Geog 320 | Geomorphic Processes | 4 |
| G 456 | Astrogeology | 4 |
| G 446 | Meteorites | 4 |
| G 458 | Astrobiology | 4 |
| Ph 366 | Complexity and the Universe I | 4 |
| Ph 367 | Complexity and the Universe II | 4 |
| Ph 476 | Observational Astronomy | 2 |

Four credits selected from the following:

| | | |
|---------------------|----------------------------------|---|
| G 404 | Cooperative Education/Internship | 4 |
| G 405 | Reading and Conference | 4 |
| Subtotal: 28 | | |

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, or space and planetary science. 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.

GEOLOGY SECONDARY EDUCATION PROGRAM

Adviser: N.A. Price

Students preparing for careers in K-12 teaching upon completion of a Graduate

Teacher Education Program (GTEP) may qualify to teach geology and general science in middle and high schools by completing a B.A. or B.S. in geology, earth science or the requirements for integrated science (p. 192).

It is recommended that students who want to teach science in grades 5-9 major in geology and include a year-long introductory course in biology and a course in meteorology, astronomy, and oceanography; or major in earth science; or major in general studies in science and complete the integrated science program (p. 192).

Science courses are to be taken for differentiated grades, except for those offered only on a pass/no pass basis. Students must have at least a 2.75 GPA in science courses and must earn at least a C in each course.

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 Ph.D. degree in the School of the Environment.

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 is in the School of the Environment and 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. 130) 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. 40). 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 and Philosophy of Science
- Minor in Medieval Studies
- Pre-Education Program
- M.A.
- M.A.T. and M.S.T. (General Social Science)

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 Western Civilization, 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, since 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 495 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 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 491 | Reading Seminar | 4 |
| Hst 492 | Research Seminar | 4 |
| Hst 495 | Comparative World History | 4 |
| | Upper-division electives in history | 32-44 |

Upper-division electives: Selected in consultation with major adviser; 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 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 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 491, Hst 492 and Hst 495).

- 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.

Subtotal: 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 16 credit-hour 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 honors-in-history program includes 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 (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 (Hst 401), the second term to writing (Hst 403), and the third to presentation and revision of the thesis (Hst 403).

HISTORY MINOR

REQUIREMENTS

To earn a minor in history a student must complete 32 credits, including the following:

| | | |
|----------------|----------------------------|---|
| Courses | | |
| Hst 300 | The Historical Imagination | 4 |
| Hst 491 | Reading Seminar | 4 |
| Hst 492 | Research Seminar | 4 |

| | | |
|--------------|---------------------------|----|
| Hst 495 | Comparative World History | 4 |
| | History Electives | 16 |
| Subtotal: 32 | | |

- 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.
- Students are required to take at least one Reading Seminar (491) and Research Seminar (492) sequence.
- A maximum of 12 credits from lower-division history courses can be applied to the minor requirements.
- A minimum of 16 credits in history in residence at Portland State University is required.

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 387 | History of Modern Science | 4 |
| Phl 470 | Philosophy of Science | 4 |
| Phl 471 | Topics in Philosophy of Science | 4 |

Six elective courses chosen from (24 credits)

| | | |
|-----------------|--|---|
| Anth 325 | Culture, Health, and Healing | 4 |
| Anth 414 | Culture and Ecology | 4 |
| Bi 346/WS 346 | Genes and Society | 4 |
| Ch 170 | Fundamentals of Environmental Chemistry | 4 |
| Ch 360 | Origins of Life on Earth | 4 |
| CS 346/SySc 346 | Exploring Complexity in Science and Technology | 4 |
| Ec 460 | History of Economic Thought | 4 |
| ESM 330 | Environmental and Ecological Literacy | 4 |
| G 333 | Evolutionary Concepts | 4 |
| Geog 366 | Historical Geography of North America | 4 |
| Geog 347 | 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 301 | Ancient Philosophy | 4 |
| Phl 303 | Early Modern Philosophy | 4 |
| Phl 305 | Philosophy of Medicine | 4 |
| Phl 306 | Science and Pseudoscience | 4 |
| Phl 307 | Introduction to the Philosophy of Social Science | 4 |
| Phl 318 | 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 321 | Energy and Society I | 4 |
| Sci 347/WS 347 | Science, Gender, and Social Context I | 4 |
| Sci 348/WS 348 | Science, Gender, and Social Context II | 4 |
| Sci 355 | Science Through Science Fiction | 4 |
| Sci 359 | Biopolitics | 4 |
| Sci 361 | 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.
Subtotal: 32

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 356 | Early Medieval Art | 4 |
| ArH 357 | Byzantine Art | 4 |
| ArH 358 | Romanesque Art | 4 |
| ArH 359 | Gothic Art | 4 |
| ArH 361 | Northern Renaissance Art | 4 |
| ArH 371 | Italian Renaissance Art | 4 |
| ArH 407 | Seminar | 0-12 |
| ArH 432 | Issues in Gender and Art | 4 |
| ArH 450 | Great Periods and Themes in Art and Architecture | 4 |
| Eng 319 | Northern European Mythology | 4 |
| Eng 340 | Medieval Literature | 4 |
| Eng 426 | Advanced Topics in Medieval Literature | 4 |
| Eng 447 | Major Forces in Literature | 4 |
| Eng 448 | Major Figures in Literature | 4 |
| Eng 449 | Advanced Topics in Cultural Studies | 4 |
| Fr 341 | Introduction to French Literature | 4 |
| Ger 341 | Introduction to German Literature | 4 |
| Hst 350 | Grk-101-203-First-and-second-year-Greek English History from 1066 to 1660 | 4 |
| Hst 352 | European Women's History to 1700 | 4 |
| Hst 354 | Early Medieval Europe: 300-1100 | 4 |
| Hst 355 | 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 341 | Topics in Japanese Literature (In Translation) | 4 |
| JSt 317/Hst | Jewish History from Antiquity to the | 4 |

| | | |
|-----------------|--|------|
| 317 | Medieval Period | |
| JSt 378/Hst 378 | Pagans, Christians and Jews | 4 |
| JSt 381/Hst 381 | Kabbalah: The Jewish Mystical Tradition | 4 |
| Lat 331 | Lat 101-203 First-and-second-year Latin | 4-24 |
| Phl 302 | Early Medieval Civilization | 4 |
| Span 341 | Medieval Philosophy | 4 |
| Span 441 | Pre-Modern Cultural and Literary Foundations | 4 |
| TA 471 | Major Works in Translation | 1-4 |
| WLL 335 | Theater History: Periods and Topics | 4 |
| | The Icelandic Sagas | 4 |

Minor Coordinator approval required for: ArH 407, ArH 432, ArH 450, Eng 448, Hst 378, Hst 407, Hst 381, Hst 452, Hst 461, Jpn 341, Span 441

Fr 341: taught in French

Ger 341: taught in German

Span 341: taught in Spanish

All courses must be passed with a C- or better.

For advising concerning the minor, please consult the History Department office.

HISTORY PRE-EDUCATION PROGRAM

History majors interested in a career in secondary school teaching should make an appointment to speak to the secondary education social studies adviser for the College of Liberal Arts and Sciences (503-725-3822).

Graduate Programs

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 Aptitude section of 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.

Master of Arts in Teaching or Master of Science in Teaching

For information on the Master of Arts in Teaching or the Master of Science in Teaching (General Social Science), see Interdisciplinary Studies M.A.T./M.S.T. (p. 177).

HISTORY M.A.

See University master's degree requirements (p. 40). Specific departmental requirements 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. 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. 37), 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 596 | Introduction to Public History | 4 |

(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) as part of the required master’s thesis;

| | | |
|--------------------------------------|------------------------|---|
| 3. one public history seminar | | |
| Hst 509 | Public History Seminar | 4 |

| | | |
|--|---------------------------|---|
| 4. a minimum of 6 public history internship credits | | |
| Hst 504 | Public History Internship | 6 |

| | | |
|---|--------------------|---|
| 5. one public history lab course | | |
| Hst 511 | Public History Lab | 4 |

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 595 Comparative World History

[an appropriate adviser-approved course can replace 4 credits of Hst 595]

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 595.

HISTORY M.A.T./M.S.T.

For information on the Master of Arts in Teaching and the Master of Science in Teaching (General Social Science), see M.A.T./M.S.T. (p. 129)

Indigenous Nations Studies

239 Extended Studies Building (XSB)
503-725-9689
www.pdx.edu/nas/

- Minor in Indigenous Nations Studies

Indigenous Nations Studies (INS) is an interdisciplinary program with coursework drawn from Anthropology, English, History, Public Administration, Social Work, and other departments and schools. The

substantive focus of this curriculum is the histories and cultures of American Indians, Alaska natives, and Native Hawaiians.

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the program is based on general admission to the University. See Admissions Requirements (p. 5) 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 Native Americans and who wish to combine the study of Native Americans with their major;
- students who plan careers in Indian or native affairs;
- students who have a nascent interest in Native Americans and wish to fulfill their general education requirements with courses in this area.

The objective of the internship requirement is to place INS students in community or government organizations so that each student has an opportunity to acquire understanding of Native issues.

For information and advising, contact director Cornel Pewewardy at cornelp@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 313 | Indian-White Relations | 4 |
| Anth 314 | Native Americans | 4 |
| Anth 364 | The Archaeology of the Pacific Northwest | 4 |
| Anth 365 | The Archaeology of | 4 |

| | | |
|--------------|--|---|
| Anth 366 | North America 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 305 | Topics in Film | 4 |
| Eng 309 | American Indian Literature | 4 |
| Hst 330 | Native Americans of Eastern North America | 4 |
| Hst 331 | Native Americans of Western North America | 4 |
| Hst 349 | 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 | | |

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)
- M.A.T., M.S.T. (Science, 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

Advisers: K. DeVoll, K. Felipe, L. Marsh, B. Alberts, J. Rousseau, P. Harrison, T. Lewis, M. Dyson, M. Yates, J. Jagodnik.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for Interdisciplinary Studies' 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. 5) for more information.

INTERDISCIPLINARY STUDIES B.A./B.S.

ARTS AND LETTERS

The **arts and letters** academic distribution area consists of courses taken in applied linguistics, architecture, art, black studies (BSt 221, BSt 351, BSt 352, BSt 353, BSt 421, BSt 424, BSt 425, BSt 426, BSt 427 only), chicano/latino studies (ChLa 302, ChLa 330, ChLa 411, ChLa 414 only) communication, conflict resolution, English, world languages and literatures, music, philosophy, and theater arts.

SCIENCE

The **science** academic distribution area consists of courses taken in biology, chemistry, environmental studies, geography (only Geog 210, Geog 310, Geog 311, Geog 312, Geog 313, Geog 314, Geog 320, Geog 322, Geog 333, Geog 340, Geog 380, Geog 407, Geog 413, Geog 414, Geog 418, Geog 420, Geog 475, Geog 481, Geog 482, Geog 484, Geog 485, Geog 488, Geog 489, Geog 490, Geog 492, Geog 493, Geog 494, Geog 495, Geog 496, and Geog 497), geology,

mathematics/statistics, physics, and science education.

SOCIAL SCIENCE

The **social science** academic distribution area consists of courses taken in criminology and criminal justice (CCJ 220 and CCJ 330 only), anthropology, black studies (except BSt 221, BSt 351, BSt 352, BSt 353, BSt 421, BSt 424, BSt 425, BSt 426, BSt 427), chicano/latino studies (ChLa 201, ChLa 301, ChLa 303, ChLa 375, ChLa 380, ChLa 399, ChLa 450 only), child and family studies, economics, geography (only Geog 230, Geog 240, Geog 321, Geog 331, Geog 332, Geog 345, Geog 346, Geog 347, Geog 348, Geog 349, Geog 350, Geog 351, Geog 352, Geog 353, Geog 354, Geog 355, Geog 356, Geog 360, Geog 363, Geog 364, Geog 366, Geog 368, Geog 415, Geog 425, Geog 430, Geog 432, Geog 442, Geog 445, Geog 446, Geog 447, Geog 448, Geog 450, Geog 453, Geog 462, Geog 465, and Geog 480), history, international studies, indigenous nations studies, political science, psychology, religious studies, sociology, urban studies and planning, and women, gender, and sexuality studies.

In addition to meeting all of the nonmajor 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 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 |
|----------------|---|----|

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. The program consists of 42-45 credits and is offered at both the graduate and undergraduate levels. Undergraduate credits can be applied toward the bachelor's degree in Liberal Studies. www.pdx.edu/ci/btp.

Graduate programs

INTERDISCIPLINARY STUDIES M.A.T./M.S.T.

The College offers the degrees of Master of Arts in Teaching and Master of Science in Teaching with a major in English (M.A.T. only), social science, mathematics, science, science/biology, science/chemistry, and science/geology.

See University master's degree requirements (p. 40). Major requirements are:

Social Science

The student's program must include a minimum of 45 credits in approved graduate

credits, to include a minimum of 30 credits in the social science area (economics, geography, history, political science, and sociology), and at least 9 but not more than 15 credits in education courses. Of the minimum 30 credits in social sciences, 12 credits must be earned in each of two fields of concentration; a maximum of 12 combined credits may be in courses numbered 501 and 505. Students electing the thesis option must take a minimum of 6 and a maximum of 9 credits of 503. With consent of the adviser, the two fields may be within a single social science department.

Students may elect a thesis or nonthesis (two research papers or equivalent) program. The adviser, in cooperation with an appropriate faculty member, will establish standards for thesis and research paper requirements for students working in more than one department. All students, whether in a thesis or nonthesis program, must satisfactorily complete the course of study and pass both written and final oral examinations in both the social science fields of study as well as in education.

Science

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 science area (biology, chemistry, geology, mathematical sciences, and physics). At least 9, but not 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 and a final oral examination.

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 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 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 (with a regional focus) or choose the International Development studies track (with a regional focus). This degree offers an excellent foundation for careers in which an understanding of international economic, political, social, historical and cultural affairs is of importance; it also 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) for more information.

INTERNATIONAL STUDIES B.A.

REQUIREMENTS

Majors 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:

| | | |
|---|--|---|
| International Studies (30 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 397 | US Policy and International Development | 4 |
| Intl 407 | Seminar | 4 |
| Intl 471 | Understanding the International Experience | 4 |
| Intl 499 | Senior International | 6 |

Experience

Intl 2xx: Students may double count Intl 2xx for the major and University Studies Sophomore Inquiry; a mentor section is required.

Intl 396, or Intl 397 for the Development Studies track. Substitutions for, or waivers of, all other Intl courses must be approved by the program director as well as the adviser.

Intl 499: The Intl 499 Senior International Experience requirement may be fulfilled by taking a UnSt 421 Capstone from the INTL list of approved courses having a significant international component.

For graduation, a minimum of 36 credit hours are required to be in INTL courses.

Connected Learning/Intl Development Studies (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.

Regional Focus (20 credits)

At least 20 upper-division credits from adviser-approved, area-specific courses appropriate to the student's regional focus. International Development Studies focus majors may, in consultation with an adviser, develop a bi-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.
Subtotal: 70

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. International Development Studies focus majors (IDS) complete advisor-approved IDS track courses and Intl 397.

Academic Adviser: Ari Douangpanya, 503-725-3455

Currently, five regions of concentration and a focus in International Development Studies are available:

Africa: Stephen Frenkel, adviser, 503-725-5085

Asia: Priya Kapoor, adviser, 503-725-3543

Europe: Evguenia Davidova, adviser, 503-725-8992

Latin America: Shawn Smallman, adviser, 503-725-9978; Stephen Frenkel, adviser, 503-725-5085

Middle East: Tugrul Keskin, adviser, 503-725-3495

International Development

Studies: Leopoldo Rodriguez, adviser, 503-725-8245

General Advising: Kimberley Brown (Applied Linguistics), 503-725-8194; Birol Yesilada (Political Science), 503-725-3257

Contemporary Turkish Studies: Birol Yesilada, 503-725-3257; Tugrul Keskin, 503-725-3495

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 (adviser- approved area-specific or thematic courses) | 4 16 |
|-------------|--|---------|

Subtotal: 28

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling department minor requirements.

CERTIFICATES

The University awards certificates for language and area specialization to students who have completed, or are completing, the requirements for a bachelor’s degree in any other field. Certificates are currently available in African Studies, Asian Studies, European Studies, Latin American Studies, Middle East Studies, and Contemporary Turkish Studies. The specific courses needed for a certificate in each area differ; interested students should consult the International Studies Program in 341 East Hall.

Language and area studies certificate programs focus 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.

Students must take 24 credits (two years) of one adviser-approved language appropriate to the geographic region of concentration (or demonstrate equivalent proficiency in that language); and they must successfully complete 28 credits of advisor-approved area courses.

EDUCATION ABROAD

Students in both the International Studies and certificate programs are encouraged to consider overseas study opportunities available through the Office of Education Abroad (p. 59), 101 East Hall. However, a study abroad experience is not required.

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the program is based on general admission to the University. See Admissions Requirements (p. 5) 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 Shleifer 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: Judasim

| | | |
|-------------------|---|---|
| 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 | Kabbalah: The Jewish Mystical Tradition | 4 |

| | | | |
|---|---|----|--|
| 381U | | | |
| Area L: Literature, Culture, and the Arts | | | |
| JSt | Rabbinic Culture in the | 4 | |
| 319U/Hst | Roman World | | |
| 319U | | | |
| 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 | Jewish History from the Medieval Period to the Present | 4 | |
| 318U/Hst 318 | | | |
| JSt 335 | Sex, Love, and Gender in Israel | 4 | |
| JSt | History of Zionism | 4 | |
| 379U/Hst 379U | | | |
| JSt | The Holocaust | 4 | |
| 380U/Hst 380U | | | |
| 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.) Area: varies depending on topic. | | | |
| Courses: | | | |
| JSt 201 | Introduction to Judaism | 4 | |
| JSt | Jewish History from Antiquity to the Medieval Period | 4 | |
| 317U/Hst 317U | | | |
| JSt | Jewish History from the Medieval Period to the Present | 4 | |
| 318U/Hst 318 | | | |
| Heb 301 | Modern Hebrew Readings | 4 | |
| Heb 302 | Modern Hebrew Readings | 4 | |
| Heb 303 | Third-year Modern Hebrew | 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 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 | 4 |

| | |
|--|---|
| the State of Israel 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.

Mathematics and Statistics
 334 Neuberger Hall (NH)
 503-725-3621
www.pdx.edu/math/

- B.A., B.S. in Mathematics
- Minor in Mathematics
- Minor in Mathematics for Middle School Teachers
- Teacher Licensing 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 Mathematics and Statistics' undergraduate degrees, 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 better 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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 253 | Calculus III | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 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 | 3 |

| | | |
|---------|--|---|
| Mth 412 | Analysis I 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 |
| Mth 431 | Topics in Geometry I | 3 |
| Mth 432 | Topics in Geometry II | 3 |
| Mth 433 | Topics in Geometry 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 440 | Boolean Algebra | 4 |
| Mth 441 | Introduction to Abstract Algebra I | 3 |
| Mth 442 | Introduction to Abstract Algebra II | 3 |
| Mth 443 | Introduction to Abstract Algebra III | 3 |
| Mth 444 | Advanced Linear/Multilinear Algebra I | 3 |
| Mth 445 | Advanced Linear/Multilinear Algebra II | 3 |
| Mth 449 | Topics in Advanced Number Theory | 3 |
| Mth 451 | Numerical Calculus I | 3 |
| Mth 452 | Numerical Calculus II | 3 |
| Mth 453 | Numerical Calculus III | 3 |
| Mth 457 | The Mathematical Theory of Games | 3 |
| Mth 458 | The Mathematical Theory of Games | 3 |
| Mth 461 | Graph Theory I | 3 |
| Mth 462 | Graph Theory II | 3 |
| Mth 470 | Complex Analysis and Boundary Value Problems I | 3 |
| Mth 471 | Complex Analysis and Boundary Value Problems II | 3 |
| Mth 472 | Complex Analysis and Boundary Value Problems III | 3 |
| Mth 477 | Mathematical Control Theory I | 3 |
| Mth 478 | Mathematical Control Theory II | 3 |
| Mth 481 | Topics in Probability for | 3 |

| | | |
|----------|--|---|
| Mth 482 | Mathematics Teachers Topics in Statistics for Mathematics Teachers | 3 |
| Mth 483 | Topics in Geometry for Mathematics Teachers | 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 |
| Stat 451 | Applied Statistics for Engineers and Scientists I | 4 |
| Stat 452 | Applied Statistics for Engineers and Scientists 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 | 3 |
| Stat 466 | Experimental Design: Theory and Methods | 3 |
| Stat 467 | Applied Probability I | 3 |
| Stat 468 | Applied Probability II | 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

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.

MATHEMATICS B.A./B.S. OPTIONS

In addition to the specific required courses (p. 181), the following options are intended to help the student plan a program of study with a specific goal or career in mind.

OPTION I—APPLIED MATHEMATICS

| | | |
|-------------------------------|---|---|
| Recommended electives: | | |
| Mth 322 | Applied Partial Differential Equations | 4 |
| Mth 421 | Theory of Ordinary | 3 |

| | | |
|---------|---|---|
| Mth 422 | Differential Equations I Theory of Ordinary Differential Equations II | 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 |
| Mth 451 | Numerical Calculus I | 3 |
| Mth 452 | Numerical Calculus II | 3 |
| Mth 457 | The Mathematical Theory of Games | 3 |
| Mth 458 | The Mathematical Theory of Games | 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 | 3 |
| Stat 466 | Experimental Design: Theory and Methods | 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 | 3 |
| Stat 466 | Experimental Design: Theory and Methods | 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;

- 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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 253 | Calculus III | 4 |
| Mth 254 | Calculus IV | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Mth 256 | Applied Differential Equations I | 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 | Research | 1-6 |

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 (two) | Approved 400-level sequences | 12 |
| Mth/Stat (one) | Approved 300- or 400-level elective course | 3-4 |

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 have not 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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 253 | Calculus III | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| Mth 254 | Calculus IV | 4 |
| Mth 311 | Introduction to Mathematical Analysis I or | 4 |
| Mth 344 | Introduction to Group Theory and Applications | 4 |

Additional Requirements chosen from Approved List of courses-sequences

| | | |
|------------------|---------------------------|------|
| Mth/Stat (three) | Approved elective courses | 9-12 |
|------------------|---------------------------|------|

Approved electives for the Minor in Mathematics are:

| | | |
|---------|---|---|
| Mth 256 | Applied Differential Equations I | 4 |
| Mth 300 | Introduction to Mathematical Reasoning | 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 |

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 490 | Computing in Mathematics for Middle School Teachers | 3 |
| Mth 491 | Experimental Probability and Statistics for Middle School Teachers | 3 |
| Mth 492 | Problem Solving for Middle School Teachers | 3 |
| Mth 493 | Geometry for Middle School Teachers | 3 |
| Mth 494 | Arithmetic and Algebraic Structures for Middle School Teachers | 3 |
| Mth 495 | Historical Topics in Mathematics for Middle School Teachers | 3 |
| Mth 496 | Concepts of Calculus for Middle School Teachers | 3 |
| | Approved elective course (see an adviser) | 2-4 |

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 LICENSURE

TEACHER LICENSING REQUIREMENTS

To receive a teaching license from PSU, after completing a baccalaureate degree a student must complete the Graduate Teacher Education Program (GTEP) (p. 97) through the Graduate School of Education.

Only grades of B-, P, or above count toward satisfying the mathematics requirements for teacher licensing for the Graduate School of Education.

SECONDARY EDUCATION

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 (p. 182).

MIDDLE SCHOOL EDUCATION

Students planning to earn a middle school teaching license with an emphasis in mathematics should complete the courses:

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 490 | Computing in Mathematics for Middle School Teachers | 3 |
| Mth 491 | Experimental Probability and Statistics for Middle School Teachers | 3 |
| Mth 492 | Problem Solving for Middle School Teachers | 3 |
| Mth 493 | Geometry for Middle School Teachers | 3 |
| Mth 494 | Arithmetic and Algebraic Structures for Middle School Teachers | 3 |
| Mth 495 | Historical Topics in Mathematics for Middle School Teachers | 3 |
| Mth 496 | Concepts of Calculus for Middle School Teachers | 3 |

Information about the Graduate Certificate Program in Mathematics for Middle School Teachers can be found in the Graduate Studies section, see Graduate certificates (p. 39).

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.

ADMISSION REQUIREMENTS

Graduate Certificate for Middle School Mathematics Teachers.

The Graduate Certificate in Mathematics for Middle School Mathematics Teachers is specifically designed for teachers who desire to teach middle school mathematics. The program provides both breadth and depth in mathematics content appropriate for middle school teachers, familiarity with the current middle school curriculum ideas, alignment with the Common Core State Standards, and sensitivity to the special characteristics and needs of early adolescents in relation to mathematics learning. The Graduate Certificate program by itself does not lead to a teaching license. For information on how to obtain teacher licensure please contact the School of Education, GTEP program.

The applicants are expected to have B.A. or B.S. degree, 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) and completed Mth 111 & Mth 112 (College Algebra/Trigonometry) and Mth 211, Mth 212, Mth 213 (Foundations of Elementary Mathematics) or the equivalent. For more details, please see <http://www.pdx.edu/math/graduate-certificate-in-mathematics-for-middle-school>

Graduate Certificate in Applied Statistics.

The Graduate Certificate Program in Applied Statistics (GCAS) is primarily designed to provide a companion credential for students in departmental graduate programs (including Mathematics) who have demonstrated expertise in methods and techniques for the quantitative analysis and modeling of data. However, the program equally serves those who want to pursue just the graduate certificate. 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.

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. Please note that this program is not appropriate for students currently enrolled in the MS Statistics program.

In addition to meeting the University admission requirements, the applicants are expected to have three terms of Calculus, Linear Algebra (Mth 261), and Stat 452/Stat 552 or Stat 244 or an equivalent Statistical Methods course. For more details, please refer to <http://www.pdx.edu/math/gcas-application-instructions>

Master of Arts or Master of Science in Mathematics, Master of Science in Statistics, Master of Science in Mathematics for Teachers.

In addition to meeting the University admission requirements, students seeking regular admission status in a master's programs are expected to have completed specific mathematics or statistics courses: for the M.A./M.S. in Mathematics, courses in linear algebra, abstract algebra, mathematical analysis and differential equations; for the M.A./M.S. in Statistics, courses in linear algebra, abstract algebra, mathematical analysis, differential equations and basic statistics methods; for the M.S. in Mathematics for Teachers, courses in linear algebra, abstract algebra, mathematical analysis and college geometry.

Doctor of Philosophy in Mathematical Sciences

Applicants will be expected to have the equivalent of a bachelor's degree in a 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. Applicants must follow the University admissions instructions for graduate applicants. In addition the GREs are required, both the general test and the subject test in mathematics.

Doctor of Philosophy in Mathematics Education

Candidates in this program must currently have (or complete during their program) a

master's degree equivalent to the M.A./M.S. in Mathematics or the M.S. in Mathematics for Teachers at Portland State University. Applications must be received at least two terms prior to the term of admission. For more complete information on the program, write to the Fariborz Maseeh Department of Mathematics and Statistics at Portland State University.

DEGREE REQUIREMENTS

G.C. IN MATHEMATICS FOR MIDDLE SCHOOL TEACHERS

Candidates must complete eight graduate mathematics courses specifically designed for teachers who desire to teach middle school mathematics. This 24-credit program consists of MTH 590 - MTH 596 and Teaching & Learning in the MS Math Classroom MTH 597.

G.C. IN APPLIED STATISTICS

Candidates must complete a minimum of 24 graduate credit hours of course work distributed as three components:

1. The three-term core course sequence: STAT 564 Applied Regression Analysis (3 credits) and STAT 565, 566 Experimental Design: Theory and Methods, (3 credits each)
2. a minimum of 12 additional hours chosen from the list of interdisciplinary courses (<http://www.pdx.edu/math/graduate-certificate-in-applied-statistics>). Please note that 510/610 courses are not acceptable,
3. STAT 570 Statistical Consulting (3 credits) Please note that this course is only offered during Spring term.

See University master's degree requirements (p. 40). Specific departmental requirements are listed within their program sections.

MATHEMATICS M.A./M.S.

Candidates must complete an approved 45-credit program which includes at least 30 credits in mathematics or statistics. These 30 credits must include courses distributed as follows: two 9-credit sequences at the 600-level and either the 3-credit Mth 501 Mathematical Literature and Problems or the 3-credit Stat 501 Statistical Literature and

Problems. In addition, the student must pass written examinations.

The M.A./M.S. in Mathematics and Statistics programs are designed for the student who wishes to prepare for community college teaching, industrial work in mathematics or statistics, or further advanced work toward a Ph.D. in mathematics or statistics.

STATISTICS M.S.

Candidates must complete an approved 45-credit program which includes at least 33 credits in courses with the Stat prefix. These 33 credits must include courses distributed as follows: one 9-credit sequence at the 600 level, two 9-credit sequences at the 500 level, 3 credits of Stat 570, Topics in Statistical Consulting, and 3 credits of Stat 501, Statistical Literature and Problems. In addition, the student must pass written examinations.

M.S. IN MATHEMATICS FOR TEACHERS

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.

An M.S. in Mathematics for Teachers candidate must complete an approved program of 45 graduate credits and complete an approved mathematics curriculum project.

The M.S. in Mathematics for Teachers program offers advanced training and specialized courses for secondary school teachers of mathematics.

MATHEMATICAL SCIENCES PH.D.

The Ph.D. in mathematical sciences at Portland State University differs significantly from the traditional model of Ph.D. education in mathematical sciences. While mathematics is at the core, the program aims to develop professionals who have versatility, who are conversant in other fields, and who can

communicate effectively with people in other professional cultures. The broad-based training will prepare candidates for industry, government, and higher education. The program prepares the candidate to be well grounded in his or her field, yet conversant with several subfields by dedicating approximately 25 percent of the credit hour requirements to professional development, cross-disciplinary experiences, and allied area coursework. Students take a concentration of allied area courses, outside the department, in one or more of mathematics and statistics many natural partner disciplines, including, computer science, engineering, physics, biology, economics, finance, urban studies and planning, medicine, or public health. The courses are chosen with the assistance of the allied area adviser to form a coherent area of study directly relevant to the student's goals.

Candidates entering with a bachelor's degree must complete an approved program of 99 credit hours distributed as follows: coursework (63 credits), a doctoral seminar (9 credits), and dissertation research (27 credits). Coursework must include: 45 credits of mathematics and statistics courses, of which at least 10 courses are at the 600 level, and 15 credits of allied area courses at the 500 and 600 level. Students entering with a master's degree must complete a minimum of 72 credit hours beyond a master's degree distributed as follows: a minimum of 18 credits of approved courses in mathematics and statistics at the 600 level, a minimum of 15 credits in an allied area at the 500 and 600 level, 9 credits of doctoral seminar, and 27 credits of dissertation research. Candidates must pass comprehensive examinations in mathematics and an allied area.

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 to help in the development of mathematics educators who may become: (1) Faculty members in mathematics education in mathematics

departments or schools of education in universities, four-year colleges, or community colleges; (2) 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; (3) Private sector specialists in mathematics education.

Candidates must complete an approved program of 84 credit hours which consists of three major components: coursework, a research practicum experience, and dissertation research. Coursework must include 18 credit hours mathematics education research courses (Mth 690 - Mth 695); 18 credit hours of other 500- or 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.). Candidates must pass comprehensive examinations in mathematics and mathematics education. In addition, candidates will be strongly encouraged to demonstrate competency in reading research in mathematics education in at least one language other than English.

Philosophy

393 Neuberger Hall (NH)
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. 173)

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 300 | Philosophical Methods and Concepts | 4 |
| Phl 301 | Ancient Philosophy | 4 |
| Phl 303 | Early Modern Philosophy | 4 |
| Phl 308 | Elementary Ethics | 4 |
| Phl 324 | 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 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 301 | Ancient Philosophy | 4 |
| Phl 303 | Early Modern Philosophy | 4 |
| Phl 308 | 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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) | 4 |
| Ph 212 | General Physics (with Calculus) | 4 |
| Ph 213 | General Physics (with Calculus) | 4 |
| | or | |
| Ph 221 | General Physics (with Calculus) | 3 |
| Ph 222 | General Physics (with Calculus) | 3 |
| Ph 223 | General Physics (with Calculus) | 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 223 | General Physics (with Calculus) With | 3 | Bi 216 | Principles of Biology Lab III | 1 |
| Ph 311 | Introduction to Modern Physics | 4 | Ph 214 | Lab for Ph 201 or Ph 211 or Ph 221 | 1 | Choose 15 credits of electives from the following: | | |
| Ph 312 | Introduction to Modern Physics | 4 | Ph 215 | Lab for Ph 202 or Ph 212 or Ph 222 | 1 | Bi 357 | General Ecology | 4 |
| Ph 314 | Experimental Physics I | 4 | Ph 216 | Lab for Ph 203 or Ph 213 or Ph 223 | 1 | Bi 476 | Population Ecology | 5 |
| Ph 315 | Experimental Physics II | 4 | | | | G 322 | Global Biogeochemical Cycles | 5 |
| Ph 316 | Experimental Physics III | 4 | Ph 311 | Introduction to Modern Physics | 4 | G 351 | Introduction to Oceanography | 4 |
| Ph 322 | Computational Physics | 4 | Ph 312 | Introduction to Modern Physics | 4 | G 458 | Astrobiology | 4 |
| Ph 424 | Classical Mechanics I | 4 | Ph 314 | Experimental Physics I | 4 | G 484 | Field Geophysics | 4 |
| Ph 426 | Thermodynamics and Statistical Mechanics | 4 | Ph 316 | Experimental Physics III | 4 | Geog | Climate and Water Resources | 4 |
| Ph 431 | Electricity and Magnetism I | 4 | Ph 375 | Climate Change and Human Life | 4 | 310/Sci | | |
| Mth 251 | Calculus I | 0-4 | Ph 426 | Thermodynamics and Statistical Mechanics | 4 | 333 | | |
| Mth 252 | Calculus II | 0-4 | Ph 431 | Electricity and Magnetism I | 4 | Geog 311 | Climatology | 4 |
| Mth 253 | Calculus III | 4 | Mth 251 | Calculus I | 0-4 | Geog 312 | Climate Variability | 4 |
| Mth 254 | Calculus IV | 4 | Mth 252 | Calculus II | 0-4 | Geog 414 | Hydrology | 4 |
| Mth 256 | Applied Differential Equations I | 4 | Mth 253 | Calculus III | 4 | Ch 360 | Origins of Life on Earth | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 | Mth 254 | Calculus IV | 4 | Ch 426 | Instrumental Analysis | 4 |
| One year of general chemistry: | | | Mth 256 | Applied Differential Equations I | 4 | Ch 427 | Instrumental Analysis Laboratory | 4 |
| Ch 221 | General Chemistry I | 4 | Mth 261 | Introduction to Linear Algebra | 0-4 | CE 371 | Environmental Engineering | 4 |
| Ch 222 | General Chemistry II | 4 | Choose one of the following courses: | | | ESM 221 | Applied Environmental Studies: Problem Solving | 4 |
| Ch 223 | General Chemistry III | 4 | Ph 424 | Classical Mechanics I | 4 | ESM 222 | Applied Environmental Studies: Policy Consideration | 4 |
| Ch 227 | General Chemistry Laboratory | 1 | Ph 411 | Introduction to Quantum Mechanics | 4 | ESM 320 | Analysis of Environmental Systems I | 4 |
| Ch 228 | General Chemistry Laboratory | 1 | Ph 431 | Electricity and Magnetism I | 4 | ESM 321 | Analysis of Environmental Systems II | 4 |
| Ch 229 | General Chemistry Laboratory | 1 | Ph 432 | Electricity and Magnetism II | 4 | ESM 322 | Environmental Risk Assessment | 4 |
| At least two of the following courses: | | | Ph 434 | Methods of Mathematical Physics | 4 | ESM 324 | Environmental Systems Laboratory II | 2 |
| Ph 411 | Introduction to Quantum Mechanics | 4 | Ph 464 | Applied Optics | 4 | Subtotal: 113-116 | | |
| Ph 425 | Classical Mechanics II | 4 | Ph 451 | Electron Microscopy | 4 | See adviser for substitutions. | | |
| Ph 432 | Electricity and Magnetism II | 4 | Ph 322 | Computational Physics | 4 | Biomedical Option | | |
| Ph 434 | Methods of Mathematical Physics | 4 | Choose one of the following courses: | | | Required physics courses: | | |
| Ph 464 | Applied Optics | 4 | Ph | Atmospheric Physics | 4 | Ph 201 | General Physics | 4 |
| Two courses in a related area of science or technology (minimum 6 credits total): | | | 471/ESM | | | Ph 202 | General Physics | 4 |
| | biology, geology, additional chemistry, computer science, electrical circuitry, or applied physics | 6 | 471 | | | Ph 203 | General Physics | 4 |
| Subtotal: 101-104 | | | Ph 490 | Cellular and Molecular Biophysics | 4 | or | | |
| Environmental Option | | | One year of general chemistry: | | | Ph 211 | General Physics (with Calculus) | 4 |
| Ph 201 | General Physics | 4 | Ch 221 | General Chemistry I | 4 | Ph 212 | General Physics (with Calculus) | 4 |
| Ph 202 | General Physics | 4 | Ch 222 | General Chemistry II | 4 | Ph 213 | General Physics (with Calculus) | 4 |
| Ph 203 | General Physics | 4 | Ch 223 | General Chemistry III | 4 | With | | |
| or | | | Ch 227 | General Chemistry Laboratory | 1 | Ph 214 | Lab for Ph 201 or Ph 211 or Ph 221 | 1 |
| Ph 211 | General Physics (with Calculus) | 4 | Ch 228 | General Chemistry Laboratory | 1 | Ph 215 | Lab for Ph 202 or Ph 212 or Ph 222 | 1 |
| Ph 212 | General Physics (with Calculus) | 4 | Ch 229 | General Chemistry Laboratory | 1 | Ph 216 | Lab for Ph 203 or Ph 213 or Ph 223 | 1 |
| Ph 213 | General Physics (with Calculus) | 4 | One year of principles of biology: | | | Ph 311 | Introduction to Modern Physics | 4 |
| or | | | Bi 211 | Principles of Biology I | 4 | Ph 312 | Introduction to Modern Physics | 4 |
| Ph 221 | General Physics (with Calculus) | 3 | Bi 212 | Principles of Biology II | 4 | Ph 314 | Experimental Physics I | 4 |
| Ph 222 | General Physics (with Calculus) | 3 | Bi 213 | Principles of Biology III | 4 | Ph 316 | Experimental Physics III | 4 |
| | | | Bi 214 | Principles of Biology Lab I | 1 | | | |
| | | | Bi 215 | Principles of Biology Lab II | 1 | | | |

| | | |
|--------|--|---|
| 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 | 0-4 |
| Mth 252 | Calculus II | 0-4 |
| Mth 253 | Calculus III | 4 |
| Mth 254 | Calculus IV | 4 |
| Mth 256 | Applied Differential Equations I | 4 |
| Mth 261 | Introduction to Linear Algebra | 0-4 |
| 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 |

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) | 4 |
| Ph 212 | General Physics (with Calculus) | 4 |
| Ph 213 | General Physics (with Calculus) | 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 202 | General Physics | 4 |
| Ph 203 | General Physics | 4 |
| | or | |
| Ph 211 | General Physics (with Calculus) | 4 |
| Ph 212 | General Physics (with Calculus) | 4 |
| Ph 213 | General Physics (with Calculus) | 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 | 4 |
| Ph 312 | Introduction to Modern Physics | 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

See University degree requirements (p. 40). 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

| | | |
|----------------|---|----|
| Ph 617 | Quantum Mechanics | 4 |
| Ph 631/ECE 635 | Electromagnetic Fields and Interactions | 4 |
| Ph 624 | Classical Mechanics | 4 |
| Ph 507 | Seminar | 3 |
| | Electives | 24 |
| Ph 503 | Thesis | 6 |

Subtotal: 45

Non-Thesis Option

| | | |
|----------------|---|----|
| Ph 617 | Quantum Mechanics | 4 |
| Ph 631/ECE 635 | Electromagnetic Fields and Interactions | 4 |
| Ph 624 | Classical Mechanics | 4 |
| Ph 507 | Seminar | 3 |
| | Electives | 24 |

| | | |
|--------|--|---|
| Ph 504 | Cooperative Education/Internship or Special Projects | 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,
M3051 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 a health sciences adviser to keep current

on all recent changes and remaining requirements.

Pre-Professional Health Sciences Programs

Advisers: M. Yates, L. Marsh, J. Jagodnik, K. Felipe

Professional advisers in the College of Liberal Arts & Sciences Advising Center administer programs designed to support students' efforts to prepare for and apply to professional health sciences programs. Pre-professional health sciences 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 sciences programs offered at other institutions. There are two types of pre-professional health sciences 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 health sciences 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 sciences 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 sciences 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 a College of Liberal Arts & Sciences health sciences adviser.

College of Liberal Arts & Sciences health sciences 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. Approximately 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 College of Liberal Arts & Sciences.

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 a health sciences adviser in the College of Liberal Arts & Sciences.

K-12 Teacher Preparation

Portland State University educates prospective K-12 teachers in the Graduate School of Education. Teacher licensing is part of the Master of Education degree and is achieved through the Graduate Teacher Education Program (GTEP) in the Department of Curriculum and Instruction (note: programs in bilingual education, ESL, special education, library/media, counseling, adult education, and administration are also available in the Graduate School of Education and may be contacted by calling 503-725-4619.)

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 the 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: K. DeVoll

CHILD AND FAMILY STUDIES MAJOR

503-725-8241, Child and Family Studies Program, 306 Helen Gordon Child Development Center

Adviser: M. Penners

EARLY CHILDHOOD AND ELEMENTARY EDUCATION

Students who want to be elementary teachers choose from a wide range of majors to complete their undergraduate degrees. Some traditional choices include an interdisciplinary major (such as arts and letters, science, social sciences, or liberal studies); specific disciplinary majors such as English or History (especially those wishing to teach at the upper elementary level); or Child and Family Studies. In addition to meeting with the departmental adviser, students should meet with the elementary education adviser by visiting the College of Liberal Arts and Sciences Advising Center, SMSU M305, (503)725-3822.

MIDDLE SCHOOL EDUCATION

Prospective middle school teachers who have a preference for teaching multiple subjects (as in elementary education) should follow advice from the College of Liberal Arts and Sciences (503-725-3822). Those who prefer to get a content area specialization that may also apply to teaching at the high school should contact the pre-education academic adviser in the academic department of choice.

HIGH SCHOOL EDUCATION

Prospective high school teachers should contact the pre-education academic adviser within their major department. 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). Note: A current adviser list is available from the GTEP admissions secretary, 602 School of Education Building, and on the GTEP Web site.

GRADUATE TEACHER EDUCATION PROGRAM

Students considering application to the PSU GTEP should make an appointment to attend an advising session for prospective applicants by calling 503-725-4619 or stop by the information desk on the second floor of the School of Education Building.

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 Fundamentals | 4 |
| Psy 311 | 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 311 | Human Development | 4 |
|---------|-------------------|---|

Recommended:

| | | |
|---------|-------------------|---|
| Psy 311 | 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 a general studies major should be aware that the integrated science endorsement requires additional science courses beyond the coursework required for a major in general studies. 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 I | 4 |
| Bi 212 | Principles of Biology II | 4 |
| Bi 213 | Principles of Biology III | 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 |
|--|----|

with labs

Upper Division Science Electives (20 credits)

| | |
|--------------------------|----|
| Upper-division electives | 20 |
|--------------------------|----|

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 |
|----------|--|---|

Eight credits from:

| | | |
|---------|---|-----|
| Mth 111 | Introductory College Mathematics I | 4 |
| Mth 112 | Introductory College Mathematics II | 4 |
| Mth 251 | Calculus I | 0-4 |
| 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, CLAS Advising Center, 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 | Geosciences for Elementary Educators | 4 |
| Sci 311 | 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 |

Education (7 credits)

| | | |
|----------|---------------------------------------|---|
| Ed 420 | Introduction to Education and Society | 4 |
| SpEd 418 | Survey of Exceptional Learners | 3 |

Social Studies (8 credits)

| | | |
|---------|-------------------|---|
| Psy 311 | Human Development | 4 |
| Soc 337 | Minorities | 4 |

Fine and Performing Arts (8 credits)

| | | |
|---------|------------------------------|---|
| Art 312 | Art in the Elementary School | 4 |
| Mus 381 | Music Fundamentals | 4 |

Health (4 credits)

| | | |
|---------|--|---|
| PHE 250 | Our Community: Our Health or | 4 |
| 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

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 or | 4 |
| UnST 286 | Natural Science Inquiry | 4 |
| Sci 311 | 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

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 With | 3 |
| Bi 204 | Fundamentals of Biology Laboratory: Cells, Genes and Heredity | 1 |
| Sci 343 | Columbia Basin Plant Communities | 4 |

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 335 | Water in the Environment I | 4 |
| | or | |
| Sci 336 | Water in the Environment II | 4 |

Ch 104 and Ch 107 are required for this option.

| | | |
|------------------|--------------------------|---|
| Geography | | |
| Geog 210 | Physical Geography | 4 |
| Geog 311 | Climatology | 4 |
| Geog 314 | Severe Weather | 4 |
| Geog 345 | Resource Management | 4 |
| Geog 368 | 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 341 | Geology of the Oregon Country | 4 |
| G 344 | Geology and the National Parks | 4 |
| G 355 | Geosciences 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 261 | General Astronomy | 4 |
| | or | |
| Sci 316 | General Astronomy II | 4 |

Ph 101 is required for this option.

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 311 | Human Development | 4 |
| Soc 337 | Minorities | 4 |
| SpEd 418 | Survey of Exceptional Learners | 3 |

Electives (7-10 credits):

(choose 2 classes)

| | | |
|-----------------|---|---|
| Anth 315 | American Culture | 4 |
| | or | |
| BSt 302 | African American Experience in the 20th Century | 4 |
| | or | |
| ChLa 301 | Chicano/Latino Communities | 4 |
| CFS 385 | Working with Diverse Families | 4 |
| | or | |
| CFS 390 | Sex and the Family | 4 |
| Lib 429 | Young Adult Literature | 3 |
| Phl 331 | 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 |
| | or | |
| WS 360 | Introduction to Queer Studies | 4 |
| | Or adviser approved elective | |
| 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 311 | Human Development | 4 |
| Mth 211 | Foundations Of Elementary Mathematics I | 4 |
| Mth 212 | Foundations Of Elementary Mathematics II | 4 |
| | or | |
| 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)

| | | |
|----------|--|---|
| CFS 491 | Conceptual Foundations in Child and Family Studies | 4 |
| G 355 | Geosciences for Elementary Educators | 4 |
| Psy 460 | Child Psychology | 4 |
| Psy 461 | Psychology of Adolescence and Early Maturity | 4 |
| Sci 311 | Teaching Everyday Science | 4 |
| SpEd 455 | Working With LEP Children Who Have Special Needs | 2 |
| SpHr 365 | Survey of Speech, Language, and Hearing | 4 |

| | | |
|-----------------|---|---|
| SpHr | Disorders | 4 |
| 372 | Speech and Language Development in Children | |
| 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. They 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 prelaw 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>.

Pre-law students are 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.

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 308, 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 above (including 399-409) | 4 | |
| Psy 321 | Research Methods in Psychology | 4 | |
| Psy 410-498 | Additional upper division psychology courses (300-or 400-level, excluding 401-409) | 16 | 20 |
| 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. 176))

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 |
| 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 or | 12 |
| 6XX | Electives in Developmental Psychology or | 12 |
| 6XX | Electives in Industrial/Organizational Psychology | 12 |
| 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 Education, Center for
175 Fourth Avenue Building (FAB)
503-725-4243
<http://www.pdx.edu/cse/>

- M.S.T.

M.S.T. (GENERAL SCIENCE)

The mission of the Center for Science Education (CSE) is to enhance science teaching and learning through innovative education, research, and community outreach programs. The Center administers a Master of Science in Teaching (MST) program, and professional development opportunities for formal and informal science educators. The Center also supports community partnerships that involve citizens and community institutions in activities that employ the inquiry practices of science and support implementation of the Next Generation Science Standards (NGSS). Through its programs, the Center aims to help students and teachers expand their capacity to participate in the community as informed citizens. The Center's community programs provide science education outreach services to teachers and students at the kindergarten through high school levels through their partnership with the Portland Metro STEM Partnership (www.pdxstem.org). It is the administrative home of the Intel Northwest Science Exposition. In addition, many CSE faculty members partner with local schools, non-profits, and government agencies as part of the organization's professional development program.

GRADUATE PROGRAM

The College of Liberal Arts and Sciences offers the Master of Science in Teaching in General Science degree (MST). The goal of the Master of Science Teaching (MST) in General Science is to advance the use and understanding of teaching NGSS standards-aligned science through graduate level coursework, and an active research program. The MST is administered within flexible guidelines to match the needs of students with varying backgrounds and professional experience. Graduate students work with

faculty advisers to develop and carry out a science learning- and teaching-based research agenda.

The University requires that students complete 24 credits in graduate level science and nine to fifteen credits in education. For a more specific description of the course plan for the option I and option II MST in General Science, please refer the Center for Science Education webpage at <http://www.pdx.edu/cse/mst>.

Participants can receive up to \$9,000 in funding for their practicum experience in the first year of either option one or two.

Option one is an MST program designed for those who are preparing to teach informal science in higher education, or already hold a teaching certificate. This program is suited to those who are current and future science educators desiring to enhance science teaching, and student learning assessment knowledge for Kindergarten through higher education settings, or individuals interested in science interpretation for the general public.

Option two is designed to compliment a licensure program and prepare students to teach science in K-12 classrooms. This two-year program is designed specifically for pre-service K-12 science teachers. The first year of this program includes the MST graduate level science content courses and classes which will support scholarship in the area of science education research with the completion of the master's science education research project or thesis. The second year of the program is primarily focused on the Graduate Teacher Education Program (GTEP), where students complete the requirements to earn a recommendation for an Oregon Teaching Certificate.

In both Option I and Option II programs, students complete a thesis contingent on adviser approval. In order to fulfill degree requirements, the student must satisfactorily complete the degree programs, and pass their thesis defense.

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/undergraduate-programs.

Sociology

217 Cramer Hall (CH)
503-725-3926
www.pdx.edu/sociology/

- B.A., B.S.
- Minor
- Secondary Education Program—Social Science
- M.A., M.S.
- Ph.D.
- M.A.T. and M.S.T. (General Social Science)
- 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 20 credits in electives in the field) and the mathematics course in statistical methods.

| Courses | | |
|----------------|---|----|
| Soc 200 | Introduction to Sociology | 4 |
| Soc 301 | Foundations of Sociology I | 4 |
| Soc 302 | Foundations of Sociology II | 4 |
| Soc 310 | U.S. Society | 4 |
| Soc 320 | Globalization | 4 |
| Soc 397 | Social Research Methods | 5 |
| Soc 398 | Sociology Research Project | 4 |
| | Sociology electives, including at least 12 credits in 400-level courses | 20 |
| 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 | 24 |
| | credits inclusive | |

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. 176)).

Graduate programs

The department offers graduate work leading to the degrees of Master of Arts and Master of Science in Sociology, and for students pursuing graduate work in education, the degrees of Master of Arts in Teaching and Master of Science in Teaching (General Social Science).

The department also offers a Ph.D. in Sociology and Social Inequality. In addition, the department participates in the Urban Studies Ph.D. program. For information relative to that program, see Urban Studies Ph.D. (p. 246)

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. 40)).

DEGREE REQUIREMENTS

See University master’s degree requirements (p. 40). 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 |
|---------|--------|---|

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 M.A.T./M.S.T.

For information on the Master of Arts in Teaching and the Master of Science in Teaching, see Interdisciplinary Studies; Social Science (p. 177).

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 528/628 | Gender Inequality | 4 |
| Soc 584/684 | Social Inequality | 4 |
| Soc 695 | Advanced Methods in Sociology | 4 |
| Soc 507/607 | Proseminar | 1 |

Subtotal: 15

Soc 507/607 (Course must be taken three times)**Electives**

(at least 4 credits in sociology)

Subtotal: 12**Dissertation**

(includes proposal, research project and comprehensive exam)

Soc 603 Dissertation 27

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

85 Neuberger Hall (NH)
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 problems in medical and educational settings, community clinics, and private practices. The department offers an undergraduate program in speech-language pathology and audiology as well as a master's degree program in speech-language pathology. 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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:

| Core Courses (53 credits) | | |
|----------------------------------|--|---|
| SpHr 262 | Voice and Diction | 4 |
| SpHr 370 | Phonetics and Acoustics | 4 |
| SpHr 371 | Anatomy and Physiology of Speech and Swallowing | 4 |
| SpHr 372 | Speech and Language Development in Children | 4 |
| SpHr 380 | Language Disorders in Children | 4 |
| SpHr 394 | Guided Observation | 1 |
| SpHr 461 | Neurology of Speech and Hearing | 4 |
| SpHr 464 | Speech Disorders in Children | 4 |
| SpHr 465 | Introduction to Research Methods for Clinical Scientists | 4 |
| SpHr | Hearing Sciences | 4 |

| | | |
|----------|-------------------------------------|---|
| 487 | | |
| SpHr 488 | Clinical Audiology | 4 |
| SpHr 489 | Aural Rehabilitation | 4 |
| SpHr 495 | Organic Communication Disorders | 4 |
| SpHr 496 | Introduction to Clinical Management | 4 |

Elective Courses (choose 4 credits)

| | | |
|----------|---------------------------|---|
| SpHr 385 | Autism Spectrum Disorders | 4 |
|----------|---------------------------|---|

Additional electives may be offered as SpHr 410 courses.

Requirements also include 4 credits of an SpHr elective and 4 credits of Stat 244 or equivalent course covering basic statistical reasoning for the social sciences. In addition, students are strongly encouraged to gain proficiency in a second language.

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. 32),

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 372 | Speech and Language Development in Children | 4 |
| SpHr 461 | Neurology of Speech and Hearing | 4 |
| SpHr 464 | Speech Disorders in Children | 4 |
| SpHr 488 | Clinical Audiology | 4 |
| SpHr 489 | Aural Rehabilitation | 4 |
| Stat 243 | Introduction to Probability and Statistics I | 4 |
| Stat 244 | Introduction to Probability and Statistics II | 4 |
| | or | |
| Stat 543 | Survey of Statistical Methods | 4 |
| | or | |
| SpHr 410 | Selected Topics | 0-12 |
| SpHr 510 | Selected Topics | 0-15 |

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 pre-requisite courses by enrolling in the Department as a post-baccalaureate student.

STRONGLY RECOMMENDED

The following courses are strongly recommended:

Courses

| | | |
|----------|-------------------------------------|---|
| SpHr 380 | Language Disorders in Children | 4 |
| SpHr 464 | Speech Disorders in Children | 4 |
| SpHr 495 | Organic Communication Disorders | 4 |
| SpHr 496 | Introduction to Clinical Management | 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 pre-requisite courses by enrolling in the Department as a post-baccalaureate student.

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: math, biological sciences, physical sciences, and social/behavioral sciences (see 2014 Certification Standards, Standard IV-A).

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 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 Fall.

**SPEECH AND HEARING SCIENCES
M.A./M.S.**

See University master’s degree requirements (p. 40). Specific departmental requirements are as follows:

REQUIREMENTS

1. Students must demonstrate the knowledge and skills required for the Certificate of Clinical Competence 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 elective coursework, 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 |
| | or | |
| SpHr 559 | Augmentative and Alternative Communication | 2 |
| SpHr 560 | Research Methods in Communication Sciences | 4 |

| | | |
|-------------|---|---|
| SpHr 562 | and Disorders Cognitive Rehabilitation | 4 |
| SpHr 563 | Adult Language Disorders | 4 |
| SpHr 565 | Dysphagia | 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 | Advanced Medical Speech-Language Pathology | 2 |
| SpHr 567 | Cleft and Craniofacial Disorders | 2 |
| SpHr 586 | Autism | 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 default option in Speech and Hearing Sciences is the comprehensive exam. 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. 42). 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.

Women, Gender, and Sexuality Studies
150 Extended Studies Building (XSB)
1633 SW Park Ave.

503-725-3516
www.pdx.edu/ws/

- B.A., B.S.—Women's 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. Courses offered through many different disciplines explore how gender has shaped social, economic, and political institutions, culture, and language. Through these analyses, we envision what the world looks like once women's experience is fully included in our thinking. The Women, Gender, and Sexuality Studies core curriculum 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.

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. A degree in Women's Studies provides the foundation 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See page for Admissions Requirements (p. 5) 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.

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 306 | Global Gender Issues | 4 |
| WS 308 | Topics in Gender, Literature, and Popular Culture | 4 |
| WS 310 | Psychology of Women | 4 |
| WS 312 | Feminist Philosophy | 4 |
| WS 317 | Writing as Activism | 4 |
| WS 330 | Women of Color in the United States | 4 |
| WS 331/Intl 331 | Women in the Middle East | 4 |
| WS 332 | Race, Class, Gender, and Sexuality in the United States | 4 |
| WS 337 | Communication and Gender | 4 |
| WS 340 | Women and Gender in America to 1848 | 4 |
| WS 341 | Women and Gender in America 1848-1920 | 4 |
| WS 342 | Women and Gender in the U.S. 1920 to the Present | 4 |
| WS 343 | American Family History | 4 |
| WS 346/Bi 346 | Genes & Society | 4 |
| WS 347/Sci 347 | Science, Gender, and Social Context | 4 |
| WS 348/Sci 348 | Science, Gender, and Social Context | 4 |
| WS 351 | Gender and Education | 4 |
| WS 360 | Introduction to Queer Studies | 4 |
| WS 365/Sci 365 | The Science of Women's Bodies | 4 |
| WS 370 | History of Sexualities | 4 |
| WS 372/Eng 372 | Topics in Literature, Gender, and Sexuality | 4 |
| WS 375 | Topics in Sexuality Studies | 4 |
| WS 377 | Topics in Feminist Spirituality | 4 |
| WS 380 | 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 | Gender & Mental Health | 4 |
| WS 428 | Lesbian History | 4 |
| WS 431/ArH 431 | Women in the Visual Arts | 4 |
| WS 443 | British Women Writers | 4 |

| | | |
|-----------------|---|---|
| WS 444 | British Women Writers | 4 |
| WS 445 | American Women Writers | 4 |
| WS 446 | American Women Writers | 4 |
| WS 452/Comm 452 | Gender and Race in the Media | 4 |
| WS 467 | Work and Family | 4 |
| WS 470 | 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 |
| Subtotal: 56 | | |

WOMEN'S STUDIES MINOR

REQUIREMENTS

A minor in Women's Studies will consist of 28 credits. Students will be required to take:

1. Core curriculum of three courses: 12 credits
2. Four elective courses: 16 credits.

Core Courses (12 credits)

Students are required to take 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. 136)), 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 332 | Race, Class, Gender, and Sexuality in the United States | 4 |
| WS 360 | Introduction to Queer Studies | 4 |
| WS 370 | 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 342 | Black Feminism/Womanism | 4 |
| CFS 390 | Sex and the Family | 4 |
| Comm 452/WS 452 | Gender and Race in the Media | 4 |
| Comm 410 | Sex and the Media | 4 |
| Eng 372/WS 372 | 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 Culture | 4 |
| PHE 335 | 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 369 | Philosophy of Sex and Love | 4 |
| Psy 410 | Human Sexualities | 4 |
| Psy 431 | Psychology of Men and Masculinities | 4 |
| Soc 339 | Marriage and Intimacy | 4 |
| Soc 344 | Gender and Sexualities | 4 |
| Span 410U | Selected Topics | 4 |
| Span 436 | Major Topics: Latin American Multiple Genres | 4 |
| WS 308 | Topics in Gender, Literature, and Popular Culture | 4 |
| WS 372/Eng 372 | Topics in Literature, Gender, and Sexuality | 4 |
| WS 375 | Topics in 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.

World Languages and Literatures

491 Neuberger Hall (NH)
503-725-3522
world@pdx.edu
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

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.

Undergraduate programs

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Students majoring in Arabic, Chinese, French, German, Japanese, Russian, or Spanish are required to demonstrate proficiency at a level determined by the individual language program before being admitted to 400-level courses.

Foreign Language Requirement

If you have questions about any foreign language requirement, go to <http://www.pdx.edu/wll/foreign-language-requirement>

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.

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.

Restrictions

The language sequences 101, 102, 103 (or 150, 151) and 201, 202, 203 must be taken in order. Students who have received credit for any one of these may not subsequently receive credit for any of the lower numbered courses. This restriction also applies to transfer credits and credits earned by examination.

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, nor may they receive credit by exam for their native language.

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 or a linguistics course in the major language | 4 |

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 Arabic, Chinese, French, German, Italian, Japanese, 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, and 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 (excludes credit by exam but 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 352 | Ancient Art | 4 |
| ArH 353 | Ancient Art | 4 |
| Eng 317 | Greek Mythology | 4 |
| Grk 330 | Ancient Greek Literature in Translation | 4 |
| Grk 331 | Plato as Literature | 4 |
| Grk 332 | Greek Religion | 4 |
| Grk 333 | Women in Ancient Greece | 4 |
| Grk 334 | Greek Ethical Thought | 4 |
| Grk 335 | Sophocles and Euripides | 4 |
| Grk 336 | Ancient Greek Comedy | 4 |
| Hst 315 | Greek History | 4 |
| Hst 316 | Roman History | 4 |
| Lat 330 | Roman Culture | 4 |
| Lat 341 | 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.

CERTIFICATE OF ADVANCED PROFICIENCY IN RUSSIAN (CAPR)

This program 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: | 2 |
|---------|-------------------|---|

| | | |
|----------|--|---|
| | Globalization | |
| Rus 445 | Flagship Studies: Globalization | 2 |
| Rus 446 | Flagship Studies: Globalization | 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 | 2 |
| Rus 458 | Flagship Studies: Russian in the Major | 2 |
| Rus 459 | Flagship Studies: Russian in the Major | 2 |
| UnSt 421 | Capstone | 6 |

Subtotal: 24

Subtotal: 56

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.

Total Credit Hours: 40

FOREIGN LANGUAGE SECONDARY EDUCATION PROGRAM

Advisers: **French**, S. Walton; **German**, K. Godfrey; **Japanese**, S. Watanabe; **Russian**, M. Hickey; **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 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. 97)).
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. Have 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. 5).

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:
2. Bachelor of Arts in the language with a 3.00 GPA in the literature courses, or its equivalent as determined by the Department;
3. Oral and written proficiency: Advanced High on ACTFL scale.
4. In the secondary language: Demonstration of third-year proficiency.

DEUTSCHE SOMMERSCHULE AM PAZIFIK

Graduate credits earned in German through the Deutsche Sommerschule am Pazifik can be accepted as in-residence credit at Portland State University only if taken after formal admission to the M.A. in Foreign Language program in German, to the M.A. in Foreign Literature and Language, or to the M.A.T. 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 |
| | Additional adviser-approved 500-level coursework | 20-23 |
| Credits from 551,552,553 | | |
| | Eight graduate credits chosen from 551, 552, 553 | 8 |
| Subtotal: 45 | | |

| | | |
|---------------------------------|--|-------|
| Non-thesis option | | |
| WLL 560 | Principles of Scholarly Research | 4 |
| WLL 598 | Methods of Teaching Foreign Languages | 4 |
| 501 | Research or Other adviser-approved 500-level credits | 6-9 |
| | Additional adviser-approved 500-level coursework | 20-23 |
| Credits from 551,552,553 | | |
| | Eight graduate credits chosen from 551, 552, | 8 |

553

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. 35).

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, Japanese, 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 |
| Credits from 551, 552, 553 | | |
| | Eight graduate credits chosen from 551, 552, 553 | 8 |

Other

| | | |
|---------------------|--|----|
| | Other adviser-approved 500-level courses | 16 |
| 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 |
|----------------------|----|

Subtotal: 20

500-level literature: (not including 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), they can be waived, reducing the total credits required by a maximum of 8.

Linguistics and methods

12 graduate credits chosen from:

| | | |
|----------|---|---|
| WLL | Language Proficiency | 4 |
| 593 | Testing and Teaching | |
| WLL | Methods of Teaching | 4 |
| 598 | Foreign Languages | |
| 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.

SCHOOL OF SOCIAL WORK

Laura Burney Nissen, Dean
 Keva Miller, Associate Dean for Academic Affairs
 Tom Keller, 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 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 and the Oregon University System, the three major functions of the School are teaching, research, and community service. Teaching is directed toward preparing effective and creative social workers who are ethical and culturally responsive. Social workers 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 seven structural components: the Child and Family Studies 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 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.

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. A 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 and Family Studies degree map and expected learning outcomes, go to www.pdx.edu/undergraduate-programs.

ADMISSION REQUIREMENTS

Students must be admitted into the program to earn a baccalaureate degree in Child and Family Studies. Admittance requirements are the completion of 90 credits and Psy 311, Psy 460 or their equivalents. Thirty applicants are admitted each term. Information meetings are held for students who are considering application into the program. Call 503-725-8241 to schedule attendance at an informational meeting. Information and application forms can be obtained by visiting the Web site: <http://www.pdx.edu/ssw>. The application packet includes a two to three page essay, an application form, completed reference forms, and unofficial transcripts. Students are accepted provisionally until they attend an Orientation meeting which is scheduled in the term prior to their admittance.

CHILD AND FAMILY STUDIES B.A./B.S.

REQUIREMENTS

In addition to meeting the general University requirements, majors must complete the following program components:

| Interdisciplinary Conceptual Foundations (23 credits) | | | |
|--|--|---|--|
| Ec 417 | Women in the Economy | 4 | |
| | or | | |
| WS 340 | Women and Gender in America to 1848 | 4 | |
| | or | | |
| WS 341 | Women and Gender in America 1848-1920 | 4 | |
| | or | | |
| WS 342 | Women and Gender in the U.S. 1920 to the | 4 | |

| | | |
|--|--|---|
| WS 380 | Present or Women and Politics | 4 |
| Ed 420 | Introduction to Education and Society | 4 |
| Hst 343 | American Family History | 4 |
| Soc 342 | Social Psychology: Self, Attitudes and Social Influence | 4 |
| Soc 339 | Marriage and Intimacy | 4 |
| Soc 461 | Sociology of the Family | 4 |
| SW 301 | Introduction to Social Work | 4 |
| Coun 441 | Introduction to Counseling | 3 |
| PHE 365 | Health Promotion Programs for Children and Youth | 4 |
| SpEd 418 | Survey of Exceptional Learners | 3 |
| Child and Family Studies major requirement (40 credits) | | |
| CFS 312 | Human Development in the Family Setting | 4 |
| CFS 480 | Societal Influences on Professional Practice | 4 |
| CFS 481 | Family Health Issues | 4 |
| CFS 488 | Social Justice in Child and Family Studies | 4 |
| CFS 491 | Conceptual Foundations in Child and Family Studies | 4 |
| CFS 492 | Families and the State: Effects of Legislation and Policies on Children and Family | 4 |
| CFS 494 | Professional Development in Child and Family Studies I | 3 |
| CFS 495 | Professional Development in Child and Family Studies II | 1 |
| CFS 496 | Professional Development in Child and Family Studies III | 2 |
| CFS 497 | Practicum I | 5 |
| CFS 498 | Practicum II | 5 |

Child and Family Studies Specializations (15-21 credits)

Majors meet with a program adviser for guidance in the selection of an area of specialization from among the eleven areas listed below. Majors are required to complete a minimum of 15 credits within the area. More than one specialization area may be selected and will require an additional 15 credits. Lists of courses recommended for

each specialization are listed on the Web (www.pdx.edu/ssw/cfs) and are subject to change based on an on-going assessment and course availability. The specialization adviser will assist the student in tailoring a program of courses to meet career goals and to accommodate previous professional experience. See Specializations here (p. 210). Subtotal: 78-80

All courses submitted to satisfy the requirements for a major in Child 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 494.

CHILD AND FAMILY STUDIES SPECIALIZATIONS

HUMAN DEVELOPMENT

Adviser: Jana Meinhold, Ph.D.

Designed to focus on development in the social, cognitive, physical, and emotional domains. Theory and research related to development will extend to current issues of diversity and to implications for professionals working with children and families.

FAMILIES IN SOCIETY

Adviser: Jana Meinhold, Ph.D.

Designed to examine societal contexts within which families live. Families will be studied from the perspectives of culture, gender, health, and socio-economics. Approaches to working with families will be developed with sensitivity to the diversity of family structures, traditions, and dynamics.

YOUTH WORKER

Advisers: Ben Anderson-Nathe, Ph.D / Alma Trinidad, Ph.D.

Designed to foster understanding and provide skills for working directly with school-age children and adolescents in youth organizations and social services agencies. Coursework prepares youth practitioners from the perspective of multiple disciplines with emphasis on the development of cultural competence in working with youth and their families.

ADMINISTRATION OF PROGRAMS FOR CHILDREN, YOUTH, AND FAMILIES

Adviser: Michael Taylor, Ph.D.

Designed to develop understanding and provide strategies for administration of programs for children, youth, and families. There is a focus on communication, with sensitivity to issues of culture, race, and economics.

EARLY CHILDHOOD EDUCATION

Adviser: Erin Flynn, Ph.D.

Designed to develop understanding and provide approaches for working with children and their families in early childhood education settings. This area of study will focus on developmentally appropriate curriculum and guidance, and the development of relationships with families.

EARLY INTERVENTION/EARLY CHILDHOOD SPECIAL EDUCATION

Adviser: Ben Anderson-Nathe, Ph.D.

Designed to develop knowledge and skills for serving young children with special needs and their families in inclusive settings or to prepare for graduate studies in early intervention/early childhood special education or related fields (e.g., social work). Coursework includes a focus on typical and atypical development, foundations of early intervention/early childhood special education, and family-centered practices.

SPECIAL EDUCATION FOR SCHOOL-AGED CHILDREN

Adviser: Ben Anderson-Nathe, Ph.D.

Designed to develop knowledge and skills for serving children and youth with special needs and their families in inclusive settings or to prepare for graduate study in special education for school-aged children or related fields (e. g., social work). Coursework includes special needs and disabilities of children and youth, foundations of special education, and supports for children and youth within school, home, and community.

ELEMENTARY EDUCATION

Adviser: Miranda Cunningham, M.A.

Provides the necessary requirements for application into PSU's Graduate Teacher Education Program (GTEP). All the classes included in the Elementary Education specialization are all prerequisites for this graduate program. Students are eligible for early admission into the GTEP program, although admission is not guaranteed.

CHILD WELFARE/HUMAN SERVICES

Advisers: Michael Taylor, Ph.D. / Alma Trinidad, Ph.D.

This specialization is designed to provide basic competence in entry-level human services positions in child welfare (child protective service, foster care, adoptions, in-home services, case management, group care), mental health, and community-based organizations. Working with children and families from diverse backgrounds (ethnic, racial, economic, sexual orientation) is emphasized.

INTERNATIONAL WORKER: CHILDREN, YOUTH AND FAMILIES

Adviser: Ben Anderson-Nathe, Ph.D.

Designed for people who want to work internationally with children, youth, or families in such areas as the Peace Corps, non-governmental organizations, project management, or humanitarian relief work. This area of study will emphasize cross-cultural understanding, language acquisition, global issues, and intercultural communication.

FAMILY LIFE EDUCATOR

Adviser: Jana Meinhold, Ph.D.

Designed to develop knowledge about a broad range of topics including how families work; the inter-relationship of the family and society; human growth and development throughout the life span; both the physiological and psychological aspects of human sexuality; the impact of money and time management on daily life; the importance and value of education for parenting; the effects of policy and legislation on families; ethical considerations in professional conduct; and a solid understanding and knowledge of how to teach and/or develop curriculum for what are often sensitive and personal issues. The completion of this Specialization will also provide the necessary requirements for the

Family Life Education Provisional Certification awarded by the National Counsel on Family Relations.

CHILD AND FAMILY STUDIES MINOR

REQUIREMENTS

Lower Division (4 credits)

| | | |
|----------|--|---|
| Unst 228 | Families in Society Sophomore Inquiry | 4 |
|----------|--|---|

Choose four of the following CFS courses (16 credits)

| | | |
|---------|--|---|
| CFS 312 | Human Development in the Family Setting | 4 |
| CFS 320 | ABCs of Early Childhood Education | 4 |
| CFS 330 | American Families in Film and Television | 4 |
| CFS 340 | Queer Families | 4 |
| CFS 350 | Interpersonal Violence: Impact on Children & Families | 4 |
| CFS 382 | Mental Disorders: Issues for Families and Communities | 4 |
| CFS 385 | Working with Diverse Families | 4 |
| CFS 393 | Community Resources and Family Support | 4 |
| CFS 450 | Youth and Youth Work | 4 |
| CFS 481 | Family Health Issues | 4 |
| CFS 486 | Parent and Family Education | 4 |
| CFS 492 | Families and the State: Effects of Legislation and Policies on Children and Family | 4 |

Community-based learning (6 credits)

| | | |
|--|---|---|
| | Arranged in consultation with adviser; may be Capstone or Practicum | 6 |
|--|---|---|

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 integrates research, education and training to advance the delivery of services to children and families. The Center works with agency and community partners to promote a child and family service system that protects children, respects families, and builds community capacity to address emerging needs.

The Center includes the long-standing Child Welfare Partnership, founded in 1994. This partnership offers training, research and professional education to support Oregon's child welfare system.

In support of local, regional and statewide multi-disciplinary transformation efforts, the Center's System of Care Institute offers training, technical assistance and consultation using a community based, culturally responsive and family and youth-driven care lens.

The Center's Early Childhood and Family Support Research Team works on a robust research agenda related to child welfare, early childhood, child abuse prevention, and family support. This team provides program evaluation and community capacity building research across Oregon and in collaboration with other national researchers.

The Center has a strong focus on leadership, hosting the national Leadership Academy for Middle Managers (LAMM) a component of the National Child Welfare Workforce Institute, of the U.S. Children's Bureau. The Center also hosts the Culturally Responsive Leadership Program (a part of the Child Welfare Partnership), and offers leadership coursework for the School of Social Work.

For further information, see the Center website at <http://www.pdx.edu/ccf/>

Regional Research Institute for Human Services

1600 SW 4th Ave., Suite 900
503-725-4040
Thomas Keller, Interim 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 (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 such fields as 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 the National Wraparound Initiative and the Early Assessment and Support Alliance (EASA) Center for Excellence. Since 2000, the national program office of Reclaiming Futures: Building Community Solutions to Substance Abuse and Delinquency has been located in the RRI. Reclaiming Futures 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 www.rri.pdx.edu.

Social Work

600 Academic and Student Recreation Center
1800 SW Sixth Ave.
503-725-4712
www.pdx.edu/ssw/

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. The School offers Bachelor of Arts in Social Work (B.A.) and Bachelor of Science in Social Work (B.S.) degrees. The BSW Program was accredited by the Council on Social Work Education in June, 2011.

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/undergraduate-programs.

ADMISSION REQUIREMENTS

Bachelor of Arts in Social Work/Bachelor of Science in 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). A cohort will be admitted annually during spring term. 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, Psy 200, and one in sociology, Soc 200. SW 301 Introduction to Social Work is also advised, 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 includes an application form, questions for a brief personal essay, two reference forms and unofficial transcripts. Students will be required to attend an orientation session prior to beginning their course of study. Orientation schedule information will be provided at the time of admission. Reading the BSW Program Handbook online is recommended.

Master of Social Work

Students are admitted once a year. Admission is selective; applications and all supporting materials must be submitted by February 1 for consideration for admission in September. Early submission of application materials is encouraged. Further application information is available on-line through the school's Web site 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 need to 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, with the exception that strong candidates with only a bachelor's degree will be considered for the combined MSW/Ph.D. program. Students with a master's degree in another field may choose to enter a combined program, in which they work simultaneously toward the M.S.W. and Ph.D. degrees. 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 four references, two of whom must be academic; and
- a personal statement.

Students whose native language is not English should include the scores of the TOEFL. 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

The program will require the equivalent of approximately three year's full-time work to complete if the student enters with an M.S.W. 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. 43).

B.S.W.

The Baccalaureate Social Work (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 human rights and social and economic justice.
2. To prepare generalist social workers to practice competently with diverse client systems 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 student 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. It is designed on the 10 competencies and practice behaviors from the Council on Social Work Education (CSWE). The BSW social work 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 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. The BSW Program does not give credit for prior work experience and/or life experience, a requirement from the CSWE.

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:

| Professional Course Requirements (39 credits) | | |
|--|--|---|
| SW 301 | Introduction to Social Work | 4 |
| SW 339 | Introduction to Oppression and Privilege | 3 |
| SW 340 | Advocacy for Policy Change | 4 |
| SW 341 | Social Justice Practice | 3 |
| SW 350 | Human Behavior Through the Lifespan | 4 |
| SW 351 | Beginning Generalist | 3 |

| | | |
|--------|---|---|
| SW 430 | Practice Generalist Practice with Communities and Organizations | 3 |
| SW 431 | Generalist Practice with Individuals and Families | 3 |
| SW 432 | Generalist Practice with Groups | 3 |
| SW 450 | Social Work Research and Evaluation I | 3 |
| SW 451 | Social Work Research and Evaluation II | 3 |
| SW 460 | Senior Integrative Portfolio | 3 |

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.

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)

Subtotal: 75

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 Mission Statement

The MSW Program 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 program maintains a special commitment to these values, it recognizes the need for joining with others in society who are working toward this same purpose.

MSW Program Goals:

The MSW Program mission is realized by providing a statewide program that prepares master’s 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 wellbeing.
- 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
- Continue their professional development and scholarship after graduation, refining and advancing the quality of their practice and that of the social work profession.

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; (3) an advanced standing one-year option; (4) a part-time three-year distance option; 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. Each student’s program of study consists of a combination of foundation and advanced courses. The required foundation courses are in the following areas: (1) social work practice with individuals, families, groups, communities and organizations, (2) social justice in social work, (3) social welfare history and policy, (4) human behavior across the lifespan (5) research and evaluation and (6) field placement. Core courses also address the following areas: economic and social justice, populations at risk, ethics and values, and diversity.

The advanced curriculum includes advanced concentrations, advanced field placement and electives. Students 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 delivers a three-year curriculum and is available in selected cities in Oregon. Course instruction includes a combination of classroom teaching and interactive technology. In fall 2015, a new cohort of students will begin in Eugene and Ashland. The Salem cohort will begin their second year of study, and cohorts in Eugene and Bend will begin their third year of study. While the first year of distance learning is course work only, second year and third year students have 16 hour per week field placements 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. Bend and Salem sites will recruit new students for fall 2016.

The M.S.W. Online program delivers a three-year curriculum with a focus on Practice and Leadership with Communities and Organizations. Course instruction is exclusively online using asynchronous and

synchronous delivery methods, though students will be expected to come to campus for a three-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 placements in or near their home communities, in addition to taking their courses.

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 or
 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 | Diversity and Social Justice | 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, a unique educational opportunity for students to integrate practice, policy, and research. The program prepares students to conduct advanced social problem analysis; evaluate multi-level interventions designed to address social problems; assume leadership roles across settings, including academic, policy, practice, research, evaluation, and administration; and provide instruction in undergraduate and graduate social work

programs. The Regional Research Institute for Human Services and the Center for the Improvement of Child and Family Services are major resources for the program.

Courses are taught seminar style, providing students with experiences of engagement in discussions about complex ideas and diverse viewpoints. Following completion of required and elective courses and a research practicum, 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 (47 credits)

| | | |
|--------|--|---|
| SW 620 | Social Problem Analysis: Assessment Phase | 3 |
| SW 621 | Social Problem Analysis: Intervention Phase | 3 |
| SW 622 | Social Problem Analysis: Evaluation Phase | 3 |
| SW 630 | Empirical Foundations of Knowledge Building in Social Work | 3 |
| SW 631 | Introduction to Quantitative Research Methods in Social Work | 3 |
| SW 632 | Quantitative Data Analysis in Social Work Research | 4 |
| SW 633 | Qualitative Research I: Critical Research Frames and Beginning Practices | 3 |
| SW 634 | Quantitative Data Analysis in Social Work | 4 |

| | | |
|--------|---|---|
| SW 635 | Research II Qualitative Research II: Collecting Data for Interpretive & Constructivist Research | 3 |
| SW 637 | Qualitative Research III: Making Sense of Qualitative Research Findings | 3 |
| SW 640 | Research Practicum and Seminar | 2 |
| SW 641 | Research Practicum and Seminar | 2 |
| SW 642 | Research Practicum and Seminar | 2 |
| SW 650 | History and Philosophy of Social Welfare and Social Work | 3 |
| SW 660 | Ph.D. Seminar | 1 |

SW 660: required for six terms

Elective Courses (16 credits)

| | |
|---|----|
| Cognate Electives (taken outside the School) | 6 |
| Other Electives (including 6 Advanced Research electives) | 10 |

Dissertation (27 credits)

Subtotal: 90

Comprehensive examination

A written and an oral 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
750 Urban Center, 503-725-4043

www.pdx.edu/cupa/

- B.A., B.S., M.S.—Criminology and Criminal Justice
- B.A., B.S.—Health Studies
- B.A., B.S.—Community Development
- B.A., B.S.—Political Science
- E.M.P.A.
- Minors in Aging Services; Civic Leadership; Criminology and Criminal Justice; Community Development; Community Health; Law and Legal Studies; Political Science; Real Estate Development; Sustainable Urban Development
- Graduate Certificate in Gerontology
- Graduate Certificate in Nonprofit and Public Management
- Graduate Certificate in Real Estate Development
- Graduate Certificate in Transportation
- Graduate Certificate in Urban Design
- M.A., M.S.—Health Studies
- M.A., M.S.—Political Science
- M.P.A.
- M.P.H.
- M.P.P.
- 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.—Public Affairs and Policy
- Ph.D.—Urban Studies, Urban Studies: Regional Science

The College of Urban and Public Affairs is the only place of its kind in the United States: a college that joins three cornerstone disciplines of contemporary life-urban

studies, community health, and government-under one roof. And just outside our door, in one of the world's most innovative urban regions, our students and faculty fuse theory and practice into solutions for the common good. Our students and faculty team 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 lab for the college's groundbreaking work on government, health, and planning issues.

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 non-profit 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. Our nationally-ranked programs in public administration, non-profit management, public health, political science, and criminology/criminal justice help prepare students to improve the way we govern and lead. Faculty and students of the Hatfield School of Government are involved in an impressive range of community collaborations around public policy and administration, civic leadership, and criminal justice.

School of Community Health

The School of Community Health offers programs for professional careers in health education, health promotion, and a variety of

health-related fields. The school works to promote the public's health and well-being through multidisciplinary education, research, and service.

RESEARCH CENTERS AND INSTITUTES

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 Institute 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.

School of Community Health

450 Urban Center
503-725-4401
www.pdx.edu/sch

- B.A., B.S.—Health Studies
- Minors in Aging Services and Community Health
- M.A., M.S.—Health Studies
- M.P.H.—Participating school in Master of Public Health
- Ph.D. in Community Health
- Graduate Certificate in Gerontology

The mission of the Portland State University, School of Community Health is to promote the public's health and well-being through multidisciplinary education, research, and service. The school builds on the resources of the urban university by integrating individual, population, and systems perspectives respecting cultural diversity, social justice, and global connectedness. We work in collaboration with students, faculty, alumni, and community organizations.

Interest in health education/health promotion has opened new opportunities for health educators in community, business and industry, school, and medical care setting. The School of Community Health offers programs leading to degrees at both the undergraduate and graduate levels. Both levels provide training for professional careers in health education, health promotion, and health-related fields. The baccalaureate degrees provide the necessary background for advanced studies leading to graduate degrees in health-related fields such as medicine, physical therapy, dentistry, and nursing. The school also offers minors in aging services and community health. A variety of health related courses are open to all students in the University.

Undergraduate programs

The undergraduate health studies curriculum is designed around a common core of courses and four separate tracks: aging services, community health education, health sciences, and school health. There is also a fifth degree in physical activity and exercise which has a separate core of classes.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for the School of Community Health'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 for more information.

HEALTH STUDIES B.A./B.S.

A grade of C- or better is mandatory in all coursework required for degrees in the School of Community 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. Majors and minors may not take required courses under the pass/no pass option.

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 452 | Gender, Race, Class and Health | 4 |
| PHE 404 | Cooperative Education/Internship | 4-8 |

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 443 | Environmental Health | 4 |
| PHE 444 | 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 credits from the following courses: (20 credits)

| | | |
|---------|---|---|
| PHE 275 | Stress Management | 4 |
| PHE 325 | Nutrition for Health | 4 |
| PHE 326 | Drug Education | 4 |
| PHE 335 | Human Sexuality | 4 |
| PHE 351 | Film and Health | 4 |
| PHE 355 | Consumer Health Issues | 4 |
| PHE 361 | Care and Prevention of Injuries | 4 |
| PHE 363 | Communicable Diseases and Chronic Health Problems | 4 |

| | | |
|---------|--|---|
| PHE 365 | Health Promotion Programs for Children and Youth | 4 |
| PHE 444 | Global Health | 4 |
| PHE 445 | Men's Health | 4 |
| PHE 446 | Community Health Principles and Practices | 4 |
| PHE 451 | Women and Holistic Health | 4 |
| PHE 452 | Gender, Race, Class and 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 |

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 325 | Nutrition for Health | 4 |
| PHE 326 | Drug Education | 4 |
| PHE 335 | Human Sexuality | 4 |
| PHE 365 | Health Promotion Programs for Children and Youth | 4 |
| PHE 448 | Health Education Techniques and Strategies | 4 |
| Psy 311 | 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 390 | Sex and the Family | 4 |
| CI 432 | Computer Applications for the Classroom | 3 |
| Psy 346 | Learning | 4 |
| Soc 337 | Minorities | 4 |
| SpEd 418 | Survey of Exceptional Learners | 3 |
| PHE Elective Classes as approved by advisor | | |
| Women's Studies courses on Violence and Sexuality | | |

PHYSICAL ACTIVITY/EXERCISE CONCENTRATION

The physical activity/exercise concentration is designed for students with interests in physiological and programmatic aspects of exercise, nutrition, fitness, and physical activity. Coursework in practical and applied techniques follows a basic framework in the biological sciences and prepares students for internship experiences related to health promotion.

In addition to the previously listed common core requirements, students pursuing a concentration in physical activity/exercise must complete the following:

Core Coursework (32 credits)

| | | |
|----------|--|-----|
| Stat 243 | Introduction to Probability and Statistics I | 4 |
| PHE 250 | Our Community: Our Health | 4 |
| PHE 295 | Health Promotion/Disease Prevention | 4 |
| PHE 350 | Health and Health Systems | 4 |
| PHE 443 | Environmental Health | 4 |
| PHE 450 | Epidemiology | 4 |
| PHE 404 | Cooperative Education/Internship | 4-8 |

Required coursework

| | | |
|---------|---|---|
| Bi 301 | Human Anatomy and Physiology | 4 |
| Bi 302 | Human Anatomy and Physiology | 4 |
| Bi 303 | Human Anatomy and Physiology | 4 |
| PHE 325 | Nutrition for Health | 4 |
| PHE 370 | Applied Kinesiology | 4 |
| PHE 448 | Health Education Techniques and Strategies | 4 |
| Or | | |
| PHE 471 | Program Planning and Evaluation in Health Education: Theory and Skill Development | 4 |

| | | |
|---------|--|----|
| PHE 456 | Health Aspects of Aging | 4 |
| PHE 473 | Physiology of Exercise | 4 |
| PHE 474 | Exercise Prescription and Training | 4 |
| PHE 475 | Exercise Testing Techniques | 4 |
| | Upper-division credits in the School of Community Health | 16 |

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 325 | Nutrition for Health | 4 |
| PHE 351 | Film and Health | 4 |
| PHE 354 | Social Gerontology | 4 |
| PHE 355 | Consumer Health Issues | 4 |
| PHE 361 | Care and Prevention of | 4 |

| | | |
|---------|---|-----|
| | Injuries | |
| PHE 363 | Communicable Diseases and Chronic Health Problems | 4 |
| PHE 365 | Health Promotion Programs for Children and Youth | 4 |
| PHE 370 | Applied Kinesiology | 4 |
| PHE 410 | Selected Topics | 1-8 |
| PHE 444 | Global Health | 4 |
| PHE 445 | Men's Health | 4 |
| PHE 446 | Community Health Principles and Practices | 4 |
| PHE 451 | Women and Holistic Health | 4 |
| PHE 452 | Gender, Race, Class and 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 |

Other electives may be taken with advisor approval.

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 325 | Nutrition for Health | 4 |
| PHE 354 | Social Gerontology | 4 |
| PHE 416 | Families and Aging | 4 |
| PHE 456 | Health Aspects of Aging | 4 |
| PHE 478 | Program Planning and Evaluation: Needs | 4 |

| | | |
|-------------------------------------|--|---|
| | Assessment and Interventions | |
| PHE 479 | Program Planning and Evaluation in Health Education: Implementation and Evaluation | 4 |
| Choose one of the following: | | |
| PHE 369 | Public Health Law, Policy, and Ethics | 4 |
| Soc 469 | Sociology of Aging | 4 |
| Psy 462 | Psychology of Adult Development and Aging | 4 |

Choose one of the following:

| | | |
|--------|--|---|
| BA 306 | Essentials of Finance for Non-Business Majors | 4 |
| BA 316 | Essentials of Marketing for Non-Business Majors | 4 |
| BA 326 | Essentials of Management for Non-Business Majors | 4 |

16 credits from the following courses

| | | |
|----------|--|---|
| BA 101 | Introduction to Business and World Affairs | 4 |
| BA 306 | Essentials of Finance for Non-Business Majors | 4 |
| BA 316 | Essentials of Marketing for Non-Business Majors | 4 |
| BA 326 | Essentials of Management for Non-Business Majors | 4 |
| BA 336 | Essentials of Information Technology for Non-Business Majors | 4 |
| BA 346 | Essentials of Entrepreneurship for Non-Business Majors | 4 |
| Comm 318 | Family Communication | 4 |
| Ec 316 | Introduction to Health Care Economics | 4 |
| PHE 328 | Health and Housing Across the Life Course | 4 |
| PHE 369 | Public Health Law, Policy, and Ethics | 4 |
| PHE 445 | Men's Health | 4 |
| PHE 446 | Community Health Principles and Practices | 4 |
| PHE 451 | Women and Holistic Health | 4 |
| Phl 313 | Life and Death Issues | 4 |
| Psy 311 | 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 301 | Introduction to Social Work | 4 |

Other electives may be taken with advisor approval.

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 354 | Social Gerontology | 4 |
| PHE 456 | Health Aspects of Aging | 4 |

Two of the following:

| | | |
|---------|--|---|
| PHE 328 | Health and Housing Across the Life Course | 4 |
| PHE 416 | Families and Aging | 4 |

12 Credits from the following courses:

| | | |
|---------|--|---|
| PHE 250 | Our Community: Our Health | 4 |
| PHE 295 | Health Promotion/Disease Prevention | 4 |
| PHE 325 | Nutrition for Health | 4 |
| PHE 328 | 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 444 | Global Health | 4 |
| PHE 445 | Men's Health | 4 |
| PHE 446 | Community Health Principles and Practices | 4 |
| PHE 450 | Epidemiology | 4 |
| PHE 451 | Women and Holistic Health | 4 |
| PHE 473 | Physiology of Exercise | 4 |

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 452 | Gender, Race, Class and Health | 4 |
| | Upper-division credits in SCH | 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 of Community Health 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 the School of Community Health for specific requirements.

Graduate programs

The School of Community Health graduate programs are designed to prepare students for

professional work in the fields of community health, health promotion, and aging 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 Community Health offers three graduate degrees and one certificate:

1. A Master of Public Health (M.P.H.) degree in Health Promotion as a partner in the Oregon Master of Public Health Program, a statewide collaborative of Oregon Health & Science University and Portland State University;
2. A Master of Arts/Master of Science (M.A./M.S.) degree in Health Studies.
3. The Institute on Aging offers a graduate certificate in Gerontology.
4. The doctoral program (PhD) in Community Health is an interdisciplinary course of study designed to provide students with advanced learning in conducting research and developing instructional skills in public health with a focus on community engagement and the social determinants of health.

Students with a wide variety of undergraduate degrees and professional experience are admitted to the School of Community Health.

ADMISSION REQUIREMENTS

MPH - Community Health

To apply for admission to the MPH graduate degree program, students are required to:

- Have a cumulative undergraduate GPA of 3.00 or higher.
- Provide scores for the Graduate Record Examination and TOEFL if applicable.
- Provide three letters of recommendation from individuals qualified to assess the applicant's potential as a graduate student.
- Submit a 500-1000 word essay describing the applicant's professional goals as they relate to the graduate program in Community Health.

In addition to providing academic transcripts, a resume of professional work-related experience (if any) should be submitted. The

application deadline for admission to the MPH is February 1st of each year. The early admission deadline is December 1st.

All MPH materials are to be submitted via SOPHAS

M.A./M.S. - Health Studies

The application deadline for the MA/MS is May 1st.

HEALTH PROMOTION M.P.H.

REQUIREMENTS

Master of Public Health. 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, 6 credits of Graduate Field Experience, and 9 credits in an Area of Emphasis. The student's academic advisor must approve the Area of Emphasis. All students must complete a graded culminating field experience and successfully pass a comprehensive examination.

The following courses are required:

OMPH Core Courses (17 Credits)

| | | |
|----------|----------------------------------|---|
| PHE 512 | Principles of Health Behavior I | 3 |
| PHE 530 | Epidemiology I | 4 |
| PHE 580 | Concepts of Environmental Health | 3 |
| PHPM 524 | Introduction to Biostatistics | 4 |
| PAH 574 | Health Systems Organization | 3 |

Health Promotion Required Courses (28 Credits)

| | | |
|---------|--|---|
| PHE 511 | Foundations of Public Health | 3 |
| PHE 517 | Community Organizing | 3 |
| PHE 519 | Introduction to 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 |
| PAH 573 | Values and Ethics in Health | 3 |
| PAH 588 | Program Evaluation and Management In Health Services | 3 |
| PHE 540 | Mass Communication and Health | 3 |
| PHE 541 | Media Advocacy and Public Health | 3 |

| | | |
|---------|----------------------------------|------|
| PHE 504 | Cooperative Education/Internship | 0-15 |
|---------|----------------------------------|------|

Area of Emphasis (9 credits)

The student's academic advisor must approve the 9 credits of Area of Emphasis courses.

Subtotal: 60

HEALTH STUDIES M.A./M.S.

The M.A./M.S degree in Health Studies is designed to provide an opportunity for graduate study, for students with an interest in physical activity/exercise. 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 applying to the the M.A./M.S. - Health Studies degree should have an undergraduate academic background in a health related discipline. Previous coursework in the biological sciences may be helpful, depending upon the graduate academic plan of study that the student wishes to pursue.

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 19 credits, and 18-21 additional credits from the physical activity/exercise concentration and 3 credits of elective to be determined by student & 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).

REQUIREMENTS

The following courses are required:

Common Required Courses

| | | |
|---------|---|---|
| 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 |

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 |
| PHE 556 | Health Aspects of Aging | 4 |
| PHE 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 553 | Biology of Aging | 3 |
| Bi 562 | Neurophysiology | 4 |

Electives (3)

3 credits of elective to be determined by student & advisor.

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.

Students admitted with only a bachelor's degree take all required coursework. Students admitted with a master's degree may substitute prior coursework for as many as 15 credits of required courses, if previous graduate-level successfully completed coursework substantially overlaps with required course content. Course substitutions will be made on a case-by-case basis and will be subject to approval by the PhD director,

the student's advisor, and the Office of Graduate Studies. The comprehensive exam and dissertation are required for all admitted students.

DEGREE REQUIREMENTS

Required Health Courses

| | | |
|---------|---|---|
| PHE 612 | Advanced Principles of Health Behavior | 3 |
| PHE 546 | Urban and Community Health | 3 |
| PHE 513 | Health, Behavior and the Social Environment | 3 |
| PHE 580 | Concepts of Environmental Health | 3 |
| PAH 571 | Health Policy | 3 |
| PAH 575 | Advanced Health Policy | 3 |
| PHE 622 | Health and Social Inequalities | 3 |
| PHE 623 | Doctoral Seminar in Health Research | 1 |
| PHE 626 | Teaching Health | 1 |

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 12 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 | Advanced Methods in Epidemiologic Research I | 3 |
| PHE 625 | Advanced Methods in Epidemiologic Research 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.

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:

Three required classes

| | | |
|---------|---|---|
| PHE 556 | Health Aspects of Aging | 4 |
| PHE 558 | Perspectives on Aging | 3 |
| SW 544 | Mid-Life and Beyond | 3 |
| SW 574 | Social Work with FrailOlder Adults | 3 |
| Psy 562 | Psychology of Adult Development and Aging | 4 |
| Soc 569 | Sociology of Aging | 4 |

For MSW students the three (3) required courses are:

PHE 558 - Perspectives on Aging

SW 544 - Mid-life and Beyond

SW 574 - Social Work with Frail Older Adults

Electives (Two electives 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" or "older adult" are in the title.

| | | |
|---------|---|---|
| PHE 516 | Families and Aging | 4 |
| PHE 523 | Business and Aging | 4 |
| PHE 557 | National Long-term Care Policy | 3 |
| PHE 556 | Health Aspects of Aging | 4 |
| PHE 559 | Economics of Aging | 3 |
| PHE 560 | Mental Health and Aging | 3 |
| PHE 561 | Cultural Variations in Aging | 3 |
| PHE 562 | Global Aging | 3 |
| PHE 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: PHE 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 only select one 510 course per certificate program, and 510 courses may not be substituted for core requirements but only used as electives.

Internship Requirements

An internship in an aging-services program or an independent research project, normally during the last term of certificate work.

| | | |
|-----|----------|-----|
| PHE | Research | 1-6 |
| 501 | | |

| | | |
|-----|----------------------|----|
| PHE | Cooperative | 0- |
| 504 | Education/Internship | 15 |

RESEARCH CENTERS AND INSTITUTES

Center for Public Health Studies

450 Urban Center

<http://www.pdx.edu/sch/center-for-public-health-studies>

Based in Portland State University’s School of Community Health, 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.

Institute on Aging

470 Urban Center
503-725-3952
www.pdx.edu/iaa

The Institute on Aging (IOA), part of the School of Community Health 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 OGE 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.

Mark O. Hatfield School of Government

Ronald L. Tammen, Director
650 Urban Center
503-725-5156
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. The School of Government is one of three schools within the College of Urban and Public Affairs.

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 2012 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 passions.

The Mark O. Hatfield School of Government is home to PSU's Criminology & Criminal Justice, Political Science and Public Administration divisions. Although each program is distinct, their location under one roof affords students the unique opportunity for collaborative multi-disciplinary study.

With an interdisciplinary focus, the Hatfield School offers two Ph.D. programs, as well as a Master's in Public Policy:

- The Public Affairs and Policy Ph.D. program (p. 225)
- The Health Systems and Policy Ph.D. program (p. 227)
- The Master's in Public Policy (p. 229)

The School consists of three academic divisions:

- Division of Criminology and Criminal Justice (p. 230)
- Division of Political Science (p. 232)
- Division of Public Administration (p. 235)

and six institutes:

- Criminal Justice Policy Research Institute (p. 239)
- Center for Public Service (p. 239)
- The National Policy Consensus Center (p. 248)
- The Institute for Tribal Government
- Center for Turkish Studies (p. 239)
- Center for Women's Leadership (p. 239)

Doctoral programs

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 and from the Department of Economics. Faculty members are drawn from public administration, political science, economics, criminal justice, 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 or | 3 |
| PA 540 | Administrative Theory and Behavior | 3 |
| PAP 653 | Policy Analysis: Theoretical Foundations | 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: Theoretical Foundations | 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 |
| 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 for exceptional circumstances.

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.

HEALTH SYSTEMS AND POLICY PH.D.

The Ph.D. program in Health Systems and Policy (HS&P) in the Mark O. Hatfield School of Government 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 proposed School of Public Health. It will prepare 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 ten 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. Students who have not previously completed the prerequisite classes in the five core areas of public health education programs will be required to complete these in addition to the HS&P courses.

Credit requirements

The program requires 105-114 credits in core and elective health systems subjects, policy research design and research methods. Students will complete up to 6 credits in a health systems and policy dissertation seminar, and 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 research methods | 20-21 |
| Dissertation seminar | 6 |
| Dissertation credits | 27 |

Subtotal: 105-114

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 should be completed early in the program of study.

Core courses (21-27)

| | | |
|---------|---|---|
| PAH 641 | Organizational Behavior in Health Service Organizations | 3 |
| PAH 671 | Health Policy | 3 |
| PAH 673 | Values and Ethics in Health | 3 |
| PAH 674 | Health Systems Organization | 3 |
| PAH 677 | Health Care Law and Regulation | 3 |
| PAH 686 | Introduction to Health Economics | 3 |
| PAH 660 | Contemporary Research in Health Systems and Policy | 3 |

PAH 660 may be taken up to three times.

Policy coursework

Three courses are required; students then select three electives based upon their interests in relevant policy domains. Relevant electives are listed on the HS&P website and in the HS&P student handbook.

Policy courses (19-21)

| | | |
|---------|------------------------------------|------|
| PAH 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. Relevant electives are listed on the HS&P website and in the HS&P student handbook.

Health systems courses

| | | |
|---------|--------------------------------|---|
| PHE 622 | Health and Social Inequalities | 3 |
| | Three health systems electives | 9 |

Research design and methods coursework

Students will complete three research design courses, two of which are required, and three courses on analytic methods, one of which is required. Relevant electives are listed on the HS&P website and in the HS&P student handbook.

Research design (9-10)

| | | |
|---------|--|-----|
| PAH 689 | Research Methods in Health Services | 3 |
| SW 605 | Interdisciplinary Seminar on Research Methods in Social Determinants of Health | 3 |
| | One research design elective | 3-4 |

Students who have not previously taken a graduate course in epidemiology will also be required to complete PHE 624 Advanced Methods in Epidemiological Research (3 credits).

Doctoral seminar in health systems and policy

Students will enroll in a one-credit seminar (PAH 607 Seminar) each quarter during their first two years to help prepare them for the dissertation process. The seminar will meet regularly with a 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. PAH 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 faculty.

Dissertation

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 three HS&P faculty and one Office of Graduate Studies representative. Students will register for PAH 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 www.pdx.edu/hatfieldschool/health-systems-and-policy-phd. For further assistance, contact the program administrator at hspphd@pdx.edu or 503-725-3921. 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 and the HS&P application requirements can be found at <http://www.pdx.edu/hatfieldschool/hsp-admission>. Applications are not accepted in hard copy or via email. Applications are accepted for fall admission only; the early application deadline is 1 December and the final deadline is 15 January. 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. All qualified applicants will ideally be interviewed either in person or by Skype.

PROGRAM RULES

A comprehensive set of rules governing satisfactory completion of coursework, examinations, dissertation process, and timely completion of doctoral program requirements may be found in the HS&P student handbook issued to incoming students and available on the program website.

Limitation on graduate/undergraduate courses

Students in the HS&P program are strongly discouraged from using courses offered simultaneously at the 400- and 500-level in

support of their degree programs. These courses must be approved by the student's faculty advisor.

Limitation on by-arrangement courses

Admitted Ph.D. students may utilize no more than 12 credits of Research and/or Reading and Conference credits (PAH 601 and PAH 605). In cases where more than 12 credits are needed because of the lack of regularly scheduled classes, the student must obtain a written waiver from their advisor.

Continuous enrollment and leave of absence

All students admitted to the HS&P Ph.D. program must be continuously enrolled until graduation, except for periods in which they are absent for an approved leave. A minimum of 3 credits per quarter during the regular academic year constitutes 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 in a required course is not considered as a pass. HS&P students who receive a grade of C+ or below in one of the core courses will be required to repeat the course and obtain a passing grade of B- or better, prior to progressing with other coursework.

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 Hatfield School of Government at PSU and with various research centers at OHSU. Students must apply for these by February 1 for the next academic year. 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 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.

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 Divisions 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 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 advocacy positions, especially in high-level public agencies, the private sector, and the non-profit sector.

DEGREE REQUIREMENTS

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 who have not had experience in public policy settings, or those expecting to switch the sectors or issue-areas of their specialization, are also expected to complete a short internship prior to entry into the program.

Credit requirements

The Master of Public Policy program requires 61 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 | 14 |
| Policy Analysis or Leadership Track Electives | 12 |
| Policy Specialization Courses | 12 |
| Summative Policy Project | 3 |
| Professional Development Plan | 3 |

Subtotal: 61

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

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
 PS 520 Seminar on American Political Institutions 4
 PA 535 Regulation: Policy and Practice 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: Theoretical Foundations 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 Track: Students take 12 credits of courses relating to policy leadership 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 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 of 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 3

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 program and all application forms are available at www.pdx.edu/hatfieldschool. Applications are accepted for fall admission only. Applications open on January 1 and close on April 30. Admission decisions are made on an on-going basis during that period.

Criminology and Criminal Justice

550 Urban Center
503-725-4014
www.pdx.edu/hatfieldschool/criminology-criminal-justice

- B.A., B.S.
- Minor
- Postbaccalaureate certificate
- M.S.

Undergraduate program

The Division of Criminology and Criminal Justice is designed for students who are interested in studying the causes, prevention, and control of criminal activity. The division's curriculum provides students with a broad base of knowledge about crime, criminals, victims, and the criminal justice system. This includes coverage of theories, programs and research on crime prevention, policing, courts, and corrections within the context of sustainable communities. Examination of these issues occurs at individual, community, and societal levels. Moreover, the curriculum is designed to foster student skills in critical reasoning, problem solving, and written and oral communication.

Reflecting the philosophy of the university as a whole, the program emphasizes the importance of diversity, ethical treatment, and involvement in the community. Specifically, the program provides students with opportunities to apply what they have learned in the classroom to community settings.

Students in this dynamic program have the opportunity to debate some of the most controversial issues facing our nation. Are people born deviant or do they become deviant through environmental influences? Are minorities treated fairly in the criminal justice system? Should we “get tough on crime” or does this lead to tougher offenders? Does the death penalty deter crime? Is plea bargaining corrupting our judicial system? Can serious crime be prevented by mobilizing neighborhoods, redesigning cities, and creating sustainable communities?

Criminology and criminal justice is an interdisciplinary major, a fact demonstrated by the diverse backgrounds of our full-time and adjunct faculty. Students graduating from our program have a wide range of choices when they look for employment or post-graduate education. Our graduates work in local and federal law enforcement in corrections (probation and parole, correctional administration), in human services (offender counseling, victim assistance), and in fields like security and investigation within the business community. Graduates from our program also go 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 and Criminal Justice's undergraduate degree, go to www.pdx.edu/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See page Admissions Requirements (p. 5) for more information.

CRIMINOLOGY AND CRIMINAL JUSTICE, B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, students who major in criminology and criminal justice (CCJ) must complete core and elective courses within the division. 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 a 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 division major requirements. The CCJ degree requirements are:

| | | |
|---------------------|----------------------------------|---------------------|
| Core Courses | | |
| 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 320 | Theories of Crime & Justice | 4 |
| CCJ 330 | 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: 44 |

| | | |
|----------------------|--|---------------------|
| CCJ Electives | | |
| | | Subtotal: 24 |

CRIMINOLOGY AND CRIMINAL JUSTICE MINOR

REQUIREMENTS

Students who minor in CCJ must complete core and elective courses within the division.

All courses submitted to satisfy the requirements for a 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- (1.67) *does not* satisfy this requirement. Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted. The CCJ degree requirements for a minor are:

| | | |
|----------------|----------------------------------|--------------------------|
| Courses | | |
| CCJ 200 | Criminology and Criminal Justice | 4 |
| CCJ 320 | Theories of Crime & Justice | 4 |
| CCJ 330 | Crime Control Strategies | 4 |
| | | 16 |
| | | (minimum of 8 credits at |

| | | |
|---------------------------------------|----------------------------|---------------------|
| | | or above 300-level) |
| One course from list below (4) | | |
| 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 postbaccalaureate certificate in criminology and criminal justice students must complete core and elective courses within the division. Some of these courses 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 postbaccalaureate 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 postbaccalaureate certificate are:

REQUIREMENTS

| | | |
|----------------|----------------------------------|--|
| Courses | | |
| CCJ 200 | Criminology and Criminal Justice | 4 |
| CCJ 320 | Theories of Crime & Justice | 4 |
| CCJ 330 | Crime Control Strategies | 4 |
| CCJ 380 | Criminal Justice Research | 4 |
| CCJ 420 | Criminal Law and Legal Reasoning | 4 |
| | | 12 |
| | | (minimum of 8 credits at or above 300-level) |

| | | |
|--|----------------------------|--------------|
| Two courses from list below (8) | | |
| 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

The Division 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 Division of Criminology and Criminal Justice. In consultation with an adviser, students identify and complete a minimum of four classes, thereby creating a specialty that is unique for each student. Potential specialization fields include public management, political science, urban studies, and geographic information systems.

Criminology and criminal justice graduate courses also support other PSU degree programs, such as the Master of Public Administration, Master of Public Policy, Master of Urban Studies, Ph.D. in Urban Studies, and Ph.D. in Public Affairs and Policy.

ADMISSION REQUIREMENTS

In addition to the general University requirements for admission to graduate study, prospective students should arrange for the Division of Criminology and Criminal Justice to receive:

1. CCJ Graduate Program application submitted online. Please visit site: <https://www.applyweb.com/psuuppa/ind.ex.ftl> 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 Division.
6. A resume or curriculum vita is optional.
7. Students interested in a Graduate Assistantship should include a completed application form (http://www.pdx.edu/sites/www.pdx.edu/hatfieldschool/files/GA_Application_Form.pdf). Priority consideration for Graduate Teaching and Research Assistantships will be given to those applicants that have taken the Graduate Record Examination (GRE) and submitted their scores for consideration. The GRE is not required for admission into the program.

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. Applicants who do not meet these requirements may be considered for conditional admission under exceptional circumstances.

CRIMINOLOGY AND CRIMINAL JUSTICE M.S.

DEGREE REQUIREMENTS

All candidates for a master's degree must complete 50-54 graduate credits distributed as follows:

1. 20 credit hours must be taken in the substantive core.
2. A minimum of four classes totaling 12-16 credit hours in a specialization field.
3. 12 credits of elective courses.
4. 6 credit hours of thesis or portfolio project work.
5. Successful submission and defense of a thesis or final portfolio project.

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 |

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 four classes, totaling 12-16 credits must be completed in the specialization field. Students are encouraged to complete this requirement by taking courses in other academic units such as public administration, computer science, political science, or sociology. 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.

Thesis and Portfolio

Candidates must complete either a thesis or portfolio. Both options require a final oral examination. 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. In order to satisfy thesis requirements, students must pose an original research question and apply appropriate methods of scholarship and methodology to that question in order to generate new knowledge. All CCJ Masters students will complete a portfolio unless they opt to be approved for a thesis. Students will create an electronic portfolio (e-portfolio) to document, evaluate, integrate, and reflect upon their learning experiences. The purposes of the portfolio are to facilitate students' learning and intellectual development, document accomplishments, and assess students' specialized skills and professional knowledge. Successful completion of the portfolio is a graduation requirement and is a public document that can be shared with members of our academic and professional community.

Elective Courses

Students must satisfactorily complete 12 credit hours of elective courses, half of which must be taken in the Division of Criminology and Criminal Justice.

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 division 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/undergraduate-programs.

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University. See Admissions Requirements (p. 5) 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 Division of Political Science. All courses used to satisfy political science major requirements, whether taken at PSU or elsewhere, must be graded C or above.

There are four different options for students completing a degree in political science: the standard major, the public service track, the international development track, 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:

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 (minimum 12 upper-division) | 16 |

Subtotal: 48

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 |
|--------|--------------------------|---|

| | | |
|--------|----------------------------------|---|
| 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 313 | Fundamentals of Public Service | 4 |

Additional electives (20 credits, minimum of 8 in Political Science)

Political Science options:

| | | |
|--------|---|---|
| PS 312 | Legislative Process | 4 |
| PS 331 | Oregon Politics | 4 |
| PS 417 | Interest Groups | 4 |
| PS 416 | Political Parties and Elections | 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 311 | Introduction to Civic Engagement | 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 420 | Introduction to Nonprofit Management | 4 |
| PA 425 | Grantwriting for Nonprofit Organizations | 4 |

Field Experience (8 credits)

| | | |
|--------|----------------------------------|---|
| PS 404 | Cooperative Education/Internship | 8 |
|--------|----------------------------------|---|

Subtotal: 48

Courses not required for the Public Service Option, but recommended for those interested in public service careers:

| | | |
|-------------|---|---|
| Comm 312 | Media Literacy | 4 |
| Comm 313 | 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 317 | Introduction to International Community Development | 4 |
| USP 386 | Portland Past and Present | 4 |
| USP 419/Soc | Population and Society | 4 |

441
USP 428 Concepts of Community Development 4

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 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 352 Introduction to European Politics 4
PS 353 Introduction to Latin American Politics 4
PS 354 Introduction to Asian Politics 4
PS 355 Introduction to African Politics 4
PS 361 Introduction to the Politics of the Middle East 4
PS 455 Politics of Economic Reform in Emerging Market Countries 4
PS 460 Political Development in Modern Turkey 4
PS 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 331 Geography of Globalization 4
Geog 346 World Population and Food Supply 4
Intl 397 US Policy and International Development 4
Intl 490 Global Sustainable Development 4
Phl 350 International Ethics 4
Soc 320 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 405 Reading and Conference 1-6
Subtotal: 60

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 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.

Graduate Program

The Division 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 Division 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 and spring terms. Procedures and deadlines for applications are provided on the program website (www.pdx.edu/hatfieldschool/graduate-program-in-political-science).

In addition to meeting the University's graduate admission requirements (p. 40), the Division requires applicants to submit the following:

- Political Science Graduate Admission Application
- One transcript (official or unofficial) from each college attended
- Official scores on the Graduate Record Examination (GRE) or Miller Analogy Test
- TOEFL scores (official or unofficial) if required by the University
- Two letters of recommendation from individuals who can evaluate the applicant's potential for success in the master's program
- Personal essay (about 500 words) describing academic and professional career goals, including the political science subfields of primary interest.

- Curriculum vitae or résumé (optional)

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 Coures (10 Credits)

| | | |
|--------|-----------------------------------|---|
| PS 503 | Thesis | 6 |
| PS 593 | Philosophy of the Social Sciences | 4 |

Five courses in each of two fields of concentration (40 credits)

| | | |
|--------|--|---|
| | 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

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

- Minor in Civic Leadership (p. 236)
- M.P.A. (p. 237)
- M.P.A.: Health Administration (p. 238)
- M.P.H.: Health Management and Policy (p. 238)
- E.M.P.A. (p. 239)
- Graduate Certificate in Nonprofit and Public Management (p. **Error!** **Bookmark not defined.**)
- Ph.D.—Participating Division in Public Affairs and Policy Doctoral Program (p. 225)
- Ph.D.—Participating Division in Health Systems and Policy Doctoral Program (p. 227)

The Division 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; not-for profit agencies; and hospitals and other health care organizations are attracted to both undergraduate and graduate programs offered by the division 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 Division 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

community health. Adjunct faculty with appropriate academic credentials and significant professional experience in government, nonprofit, and health organizations also contribute to the division.

The Division of Public Administration admits 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 students who are currently working, the division 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 Health degree is accredited by the Council on Education for Public Health (CEPH). The Master of Public Administration: Health Administration and the Master of Public Health: Health Management and Policy degrees are accredited by the Commission on Accreditation of Health Management Education (CAHME).

Cooperative degree program in public health

The Division of Public Administration, along with the School of Community Health, College of Urban and Public Affairs at Portland State University, collaborates with Oregon Health & Science University in offering the Oregon Master of Public Health degree. Coursework can be taken at any one of the participating institutions. The two universities jointly administer the M.P.H. degree program.

Doctoral students

See the graduate program under the Hatfield School of Government for details on the Doctor of Philosophy in Public Affairs and Policy (p. 239) and the Doctor of Philosophy in Health Systems and Policy (p. 227).

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/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 a pre-approved capstone or by an independently developed 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 |

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 | 4 |

| | | |
|---------|--|---|
| | Sustainability | |
| PA 314U | Students as Leaders | 4 |
| PA 315U | Managing People for Change | 4 |
| PA 316 | Leadership in New Student Programs | 3 |
| PA 420 | 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 350 | Inclusive Engagement | 4 |

Community-based practicum (6 credits total)

Graduate Programs

ADMISSION REQUIREMENTS

In determining admission to the Division 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:

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.
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 Division 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 500-word statement concerning the applicant's professional goals and how the specific master's degree relates to the achievement of his or her goals. This

statement should indicate whether the student plans to participate in the program on a full- or part-time basis and when program requirements are expected to be completed.

5. 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.
6. All degrees offered by the Division of Public Administration require the submission of GRE scores. This does not apply to the Certificate; see #9 below.
7. In addition to the above, the MPH program requires completion of an undergraduate course in statistics for admission.
8. The EMPA admission requirements may be found at www.pdx.edu/cps/empa.
9. The Certificate in Nonprofit and Public Management admission requirements may be found at www.pdx.edu/hatfieldschool.

The Division of Public Administration maintains the same application deadlines published for the University. Admission is open fall, winter, and spring terms.

Limitation on by-arrangement courses

Admitted master’s students may utilize no more than 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 division curriculum committee and the division chair.

Limitation on acceptance of C grades

No student may use more than two C grades toward graduation for a degree from the Division of Public Administration.

DEGREE REQUIREMENTS

The Division of Public Administration offers a Master of Public Administration degree. Students admitted to this degree are required to complete 60 credits of coursework, 15 credits must be in a field of specialization; see below.

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 548 | Advocacy in the Public Sector | 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 557 | Operations Research in Public Administration | 3 |

Other courses not listed but appropriate to the educational goals of the student may be selected with consent of 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 |

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

Field of Specialization (15)

The MPA program offers fields of specialization in nonprofit management, natural resources policy and administration, local government, global leadership and management, and human resource management. Students declare an intended field of specialization upon admission, identify 5 courses (15 credits) to make up the field, and are required to complete a “field of specialization” form with a proposed program of study by the time they complete 30 credits of the MPA program. The field and program of study may be changed based upon consultation with the faculty advisor.

Students select skill development courses (9 credits) to complement their specialization. Requirements for each specialization are:

- Nonprofit management: Three required and two elective courses, as well as one substitution for a substantive core 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.

On occasion, a student may create a unique field of specialization with advisor approval, which must be documented in the student’s graduate file. Additional suggested preparation and/or courses in other academic units, as well as other professional experiences, may be recommended by faculty advisors. Detailed information on specializations can be found at www.pdx.edu/hatfieldschool/division-of-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 |

Other courses can be approved by the adviser.

HEALTH ADMINISTRATION M.P.A.

The Division 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 |
| PAH 577 | Health Care Law and Regulation | 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 |
| PAH 580 | Health Services Human Resources Management | 3 |
| PAH 541 | Organizational Behavior in Health Service Organizations | 3 |
| PA 540 | Administrative Theory and Behavior | 3 |
| PAH 570 | Health Administration | 3 |
| PAH 571 | Health Policy | 3 |
| PAH 573 | Values and Ethics in Health | 3 |
| PA 513 | Administrative Ethics and | 3 |

| | | |
|---------|------------------------------------|---|
| PAH 574 | Values Health Systems Organization | 3 |
| PAH 586 | Introduction to Health Economics | 3 |

Elective Courses (15)

| | | |
|---------|---|---|
| PA 525 | Grantwriting for Nonprofit Organizations | 3 |
| PA 545 | Organizational Development | 3 |
| PA 549 | Cross-cultural Communication in the Public Sector | 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 |
| PA 562 | Managing Employee Performance in the Public Sector | 3 |
| PA 563 | Citizens and Administration | 3 |
| PAH 544 | Leadership and Governance in Health Services | 3 |
| PAH 572 | Health Politics | 3 |
| PAH 575 | Advanced Health Policy | 3 |
| PAH 576 | Strategic Management of Health Care Organizations | 3 |
| PA 536 | Strategic Planning | 3 |
| PAH 578 | Continual Improvement in Health Care | 3 |
| PAH 579 | Health Information Technology and Systems Management | 3 |
| PA 550 | Managing Information Resources | 3 |
| PAH 587 | Financial Management of Health Services | 3 |
| PAH 588 | Program Evaluation and Management In Health Services | 3 |
| PA 555 | Program Evaluation and Management | 3 |

Substitutions of other skill development courses may be allowed with consent of adviser.

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 509 | Practicum | 1-6 |
|---------|-----------|-----|

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 |
|--------|---------------|-----|

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

HEALTH MANAGEMENT AND POLICY M.P.H.

The Division of Public Administration offers the Master of Public Health degree with a specialty in health management and policy as part of the Oregon M.P.H. offered by Portland State University and Oregon Health and Science University. Students admitted to the health management and policy track of the M.P.H. degree are required to complete

62 hours of coursework. Instruction is provided at Portland State University and Oregon Health and Science University. For students matriculating in Fall 2015 and beyond, passing the Certified in Public Health (CPH) examination will be required for graduation.

REQUIREMENTS

Core courses (17)

| | | |
|----------|-------------------------------------|---|
| PHE 530 | Epidemiology I or Epidemiology I | 4 |
| PHPM 512 | Epidemiology I | 4 |
| PHPM 524 | Introduction to Biostatistics | 4 |
| PHE 580 | Concepts of Environmental Health or | 3 |
| PHPM 518 | Concepts of Environmental Health | 4 |
| PHE 512 | Principles of Health Behavior I | 3 |
| PAH 574 | Health Systems Organization | 3 |

Health management and policy required concentration (24)

| | | |
|---------|---|---|
| PAH 541 | Organizational Behavior in Health Service Organizations | 3 |
| PAH 571 | Health Policy | 3 |
| PAH 573 | Values and Ethics in Health | 3 |
| PAH 576 | Strategic Management of Health Care Organizations | 3 |
| PAH 577 | Health Care Law and Regulation | 3 |
| PAH 586 | Introduction to Health Economics | 3 |
| PAH 587 | Financial Management of Health Services | 3 |
| PAH 588 | Program Evaluation and Management In Health Services | 3 |

Plus 15 credits from the following list:

| | | |
|---------|---|---|
| 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 |
| PAH 544 | Leadership and Governance in Health Services | 3 |

| | | |
|---------|--|---|
| PAH 570 | Health Administration | 3 |
| PAH 572 | Health Politics | 3 |
| PAH 575 | Advanced Health Policy | 3 |
| PAH 578 | Continual Improvement In Health Care | 3 |
| PAH 579 | Health Information Technology and Systems Management | 3 |
| PAH 580 | Health Services Human Resources Management | 3 |
| PHE 520 | Qualitative Research Design | 3 |
| PHE 541 | Media Advocacy and Public Health | 3 |
| PHE 557 | National Long-term Care Policy | 3 |

Other courses may be approved by the adviser.

Field work (6)

| | | |
|---------|-----------|-----|
| PAH 509 | Practicum | 1-6 |
|---------|-----------|-----|

Total Credit Hours: 62

EXECUTIVE M.P.A.

The Executive MPA offers a work-centered curriculum that is designed to reflect the way problems realistically present themselves in the workplace. Courses are organized and planned with deliberate sequencing to maximize learning that carries over from one course to another. Students admitted to this degree have at least 10 years of experience and are required to complete 45 credits of coursework in a cohort model.

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 545 | Organizational Development | 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 |
| PA 510 | Selected Topics | 0-6 |
| PA 510 | Selected Topics | 0-6 |

PA 510: (determined based on cohort members' interests and opportunities.)

Capstone Requirement (6)

Students will register for the following course 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 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 510 Cultural Competence & Public Leadership and PA 510 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 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: 45

DOCTORAL DEGREES

The Division of Public Administration cooperates with other units within the College of Urban and Public Affairs to offer two doctoral degrees; one in public affairs and policy and one in health systems and policy. For details, see the program descriptions.

RESEARCH CENTERS AND INSTITUTES

Criminal Justice Policy Research Institute

550 Urban Center
503-725-4014

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 divisions of PSU's Mark O. Hatfield

School of Government. The Center's broad mandate is to connect PSU's research capabilities and public service mission with real-world challenges in the public and nonprofit sectors, while forging productive and sustainable relationships with leaders at the local, state, federal, and international levels.

Through its leadership program area the Center 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 and Korea. These offerings include an Executive MPA degree for experienced practitioners; a Professional Certificate in Nonprofit Fundraising; custom-designed leadership development programs; and applied research and technical assistance across a wide range of fields including workforce diversity, change management, and organizational performance.

Through its nonprofit program area the Center focuses on research and high quality, accessible, and relevant education in nonprofit management, leadership, governance, and philanthropy. Programs include seminars, workshops, conferences, and community forums designed to link theory and practice for practitioners in the philanthropic and nonprofit sectors.

Institute for Tribal Government

570-J Urban Center
503-725-9000

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 deal with tribal, state, and federal governance and 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.

Center for Turkish Studies

650 Urban Center
503-725-8309

www.pdx.edu/turkish_studies_center/

The Center for Turkish Studies operates out of the Mark O. Hatfield School of Government and the Office of International Affairs at Portland State University. The Center's faculty covers diverse academic disciplines and come from institutions in North America, Europe, Turkey, and North Cyprus. The center promotes academic research and exchange programs between PSU and Turkish universities as its primary objective. It also engages in private and public sector outreach activities on topics pertaining to contemporary Turkish affairs, the Turkic world, and the peace process in Cyprus and the Eastern Mediterranean. It sponsors and coordinates international conferences, promotes business relationships, and provides consulting on strategic, technical, economic, and political issues to national and international institutions and firms.

National Policy Consensus Center

720 Urban Center
503-725-9077
www.pdx.edu/npcc

The National Policy Consensus Center is an applied research and development center in collaborative governance that serves both the state of Oregon and a national audience. The Center offers students and faculty real-world experience that informs both research and teaching and offers training and student internship opportunities. NPCC is a credible, neutral forum and provides this asset to leaders and their communities seeking to address public issues and opportunities. NPCC has developed a robust spectrum of collaborative governance activities to improve governance outcomes. NPCC hosts the following programs:

Oregon Solutions (OS) is charged with developing sustainable solutions to community-based problems that support economic, environmental, and community objectives and promote prosperity. OS works across sectors— government, business, and non-profit— to agree how a project will be implemented, which is then memorialized in the Declaration of Cooperation®.

Oregon Consensus operates as a neutral forum and provides unbiased facilitation, mediation and agreement seeking services that bring together community members, organizations, government policy makers,

and businesses to resolve differences, collaborate on public issues, and find a common direction forward.

Collaborative Systems are the convening of parties with intersecting interests over time around a topical area or geographic area span that may involve numerous projects or issues.

The **Intergovernmental Program** provides assistance to state and local governments in the formation of intergovernmental partnerships.

Oregon's Kitchen Table (OKT) is a platform for permanent civic infrastructure through which Oregonians can provide real-time feedback, opinions, and ideas to decision makers. OKT also experiments with new ways to broaden the concept of civic engagement.

In **Research & Development**, innovative applications of the Oregon Solutions model are explored including using the model for new subject matter areas across systems.

Center for Women's Leadership

530D 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 Abigail Scott Duniway speaker series featuring notable women leaders (such as Lilly Ledbetter), 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 Young Women's Leadership 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 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/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_c

hange.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 300 | 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 312 | Urban Housing and Development | 4 |
| USP 313 | 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). 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 314 | 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 | 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 | 3 |

| | | |
|---------|---|---|
| USP 490 | Nonprofit Organizations Green Economics and Sustainable Development | 3 |
|---------|---|---|

USP 314, USP 457: (Offered every other year)

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 311 | Introduction to Civic Engagement | 4 |
| PA 312 | Foundations of Community Leadership | 4 |
| PA 313 | 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 300 | 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 311 | Introduction to Urban Planning | 4 |
| USP 312 | Urban Housing and Development | 4 |
| USP 360 | Real Estate Finance I | 4 |
| USP 431/Ec | Urban Economics | 4 |
| USP 431/RE | | |
| USP 431 | Real Estate Law | 3 |
| USP 438/RE | | |
| USP 438 | | |

Electives (6)

| | | |
|--------------|--------------------------------------|---|
| FIN 459 | Valuation | 4 |
| RE 439 | Real Estate Valuation I | 3 |
| USP 325 | Community and the Built Environment | 4 |
| USP 326 | Neighborhood Conservation and Change | 4 |
| USP 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 313 | Urban Environmental Issues | 4 |
| USP 324 | Healthy Communities | 4 |
| USP 325 | 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 Toulan 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. 5), requirements for applications to the Toulan 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 Toulan 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 (25 credits). Each student also defines a field area which is pursued through coursework (21 credits) and individual research leading to a thesis or research paper (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 |
| USP 697 | Urban Studies Seminar | 4 |

The first four 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

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-one credits of field-area coursework are required.

RESEARCH REQUIREMENTS

The M.U.S. degree provides for thesis and nonthesis options. The thesis option requires registration for 6 credits of USP 503 Thesis and completion of a formal thesis. The nonthesis option requires preparation of a substantial research paper (involving registration in 6 credits of USP 501 Research) and successful completion of a written field area examination.

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 five fields of specialization to allow the graduate either to enhance previous work experience or to enter the job market with a more focused area of expertise. These are: transportation, land use, community development, environment, and economic development. One field of specialization is required as part of the program leading to the degree. 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 Specializations and Electives | 1 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 multidisciplinary 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 energy policy, real estate development, transportation, and urban design are offered by the Toulan 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/graduate-certificate-urban-design>, <http://www.pdx.edu/usp/GCRED>, and <http://www.cts.pdx.edu/gradcert.php>.

RESEARCH CENTERS AND INSTITUTES

Center for Urban Studies

320 Urban Center
503-725-5220

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 CityWise 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, the Urban Sustainability

Accelerator (USA), and the Oregon Planning Forum.

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) supports U.S. cities to implement sustainable development projects through technical assistance and university expertise.

The Oregon Planning Forum 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 an Assistant Director, 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, an Undergraduate Major in Real Estate Finance, 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.

DIRECTORIES

Portland State University Board of Trustees

On November 21, 2013 the Board of Trustees of Portland State University was confirmed by the Oregon State Senate. Effective July 1, 2014, Portland State University is an independent public university governed by the Board. The Board is composed of 14 trustees, appointed by the Governor and confirmed by the Oregon State Senate, and the President of the University (who serves as a non-voting trustee). Trustees, other than the student, faculty, and non-faculty staff trustees, serve four-year terms, except that half of the inaugural trustees were appointed to two-year terms in order to stagger trustee terms going forward. The student, faculty and non-faculty staff trustees serve two-year terms. The Board elects its own Chair and Vice Chair, pursuant to the bylaws adopted by the Board. Trustees Pete Nickerson and Tom Imeson have been elected to serve as Chair and Vice Chair, respectively, for officer terms ending June 30, 2015. The Secretary to the Board is appointed by the President, with the consent of the Board, and is not a trustee. The term of office of each trustee expires on June 30 of the year indicated below.

| | |
|--|------|
| Swati Adarkar , vice-chair, Academic and Student Affairs Committee | 2017 |
| Erica Bestpitch , non-faculty staff trustee | 2015 |
| Pamela Campos-Palma , student trustee | 2015 |
| Gale Castillo | 2015 |
| Sho Dozono | 2017 |
| Maude Hines , faculty trustee | 2015 |
| Thomas J. Imeson , vice-chair of the board; vice-chair, Executive and Audit Committee | 2017 |
| Margaret D. Kirkpatrick , chair, Academic and Student Affairs Committee | 2017 |
| Irving Levin | 2017 |
| Fariborz Maseeh | 2015 |
| Rick Miller (Karl R. Miller, Jr.), chair, Finance and Administration Committee | 2015 |
| Pete Nickerson , chair of the | 2015 |

board; chair, Executive and Audit Committee

| | |
|---|------|
| Peter W. Stott | 2015 |
| Christine Vernier , vice-chair, Finance and Administration Committee | 2017 |
| Wim Wiewel , President of the University; ex officio, non-voting trustee | |
| David Reese , General Counsel and Secretary to the Board | |

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 May 2015 and may not include changes and appointments made after that time.

Office of the President

| |
|---|
| Wim Wiewel (2008) Ph.D. President. Ph.D. 1984 Northwestern University. |
| Lois Davis (2009) B.S. Chief of Staff, Special Assistant to the President. B.S. 1977 University of Oregon. |

Office of Athletics

| |
|---|
| Mark Rountree (2015) B.S. Athletic Director. B.S. 1991 Louisiana Tech University. |
| Matt Billings (2011) M.A. Deputy Athletic Director. M.A. 2000 Idaho State University. |
| Lisa Miller (2015) M.A. Associate Athletic Director, Compliance and Student Services, SWA. M.A. 2013 University of Washington. |
| Tygue Howland (2012) M.E. Associate Athletic Director, External Operations. M.E. 2012 University of Washington. |

Mike Lund (1989) B.A.
Associate Athletic Director, Media and Communications. B.A. 1987 Lewis and Clark College.

Dennis Ferguson (2007) B.A.
Assistant Athletic Director, Business Development. B.A. 1959 Santa Clara University.

Jim Wallis (1989) M.S.
Assistant Athletic Director, Sports Medicine. M.S. 1984 University of Arizona.

Coaches

Bruce Barnum (2009) M.E.
Interim Head Football Coach. M.E. 1991 Eastern Washington University.

Kailin Downs (2013) B.B.A.
Head Women's Golf Coach. B.B.A. 2005 New Mexico.

Tyler Geving (2004) M.A.
Head Men's Basketball Coach. M.A. 2000 City University.

Ronny Harrison (2008)
Head Coach, Track and Field/Cross Country. Portland State University.

Lynn Kennedy (2015) M.B.A.
Head Women's Basketball Coach. M.B.A. 2007 New Mexico Highlands University.

Toby Krael (2013) J.D.
Head Men's Tennis Coach. J.D. 1994 Gonzaga University School of Law.

Laura Schott (2008) B.S.
Head Women's Soccer Coach. B.S. 2004 University of California, Berkeley.

Michael Seeman (2008) B.S.
Head Volleyball Coach. B.S. 1999 Portland State University.

Barbara Sherwood (2013) M.S.
Head Softball Coach. M.S. 2000 Troy University.

Jay Sterling (2009) B.A.
Head Women's Tennis Coach. B.A. 2007 The University of Georgia, Athens.

Academic Affairs Office of the Provost

Sona Karentz Andrews (2010) Ph.D.

Provost and Vice President for Academic Affairs; Professor of Geography. Ph.D. 1981 Arizona State University.

Shelly Chabon (2008) Ph.D.
Vice Provost for Academic Personnel & Leadership Development; Professor of Speech and Hearing Sciences. Ph.D. 1980 University of Pittsburgh.

Margaret Everett (1996) Ph.D.
Vice Provost for International Affairs and Dean of Graduate Studies; Professor of Sociology. Ph.D. 1995 Yale University.

Sukhwant Jhaj (2001) M.Arch.
Vice Provost for Academic Innovation and Student Success; Dean of Undergraduate Studies. M.Arch. 1994 Cranbrook Academy of Art.

R. Scott Marshall (1999) Ph.D.
Vice Provost for Academic and Fiscal Planning; Professor of Business Administration. Ph.D. 2000 University of Oregon.

Advising and Career Services

Mary Ann Barham (1992) M.S.
Director. M.S. 1991 Portland State University.

Regina Arellano (2009) M.A.
Academic & Career Adviser. M.A. 2006 Portland State University.

Jeanne Ellis (2011) B.S.
Internship Coordinator. B.S. 2005 Portland State University.

Greg Flores (2008) M.S.
Associate Director. M.S. 2008 Portland State University.

Rebecca Hunt Ingersoll (2003) M.S.
Associate Director. M.S. 1997 Portland State University.

Karen Kennedy (2008) M.A.
Academic & Career Adviser. M.A. 2000 Michigan State University.

Ann Mestrovich (2012) M.A.
Employer Relations Coordinator. M.A. 2001 American University.

Louise Paradis (1994) M.A.
Career Counselor. M.A. 1986 Bowling Green State University.

Courtney Rousseau (2015) M.S.

Academic & Career Adviser. M.S. 2014 Indiana University.

Leena Shrestha (2008) M.A.
Academic & Career Adviser. M.A. 2005 School for International Training.

Anne-Marie Thompson (2010) M.S.
Academic & Career Adviser. M.S. 2009 Portland State University.

Mary Vance (1999) M.A.
Career Counselor. M.A. 1997 University of Maryland.

Heidi Yu (2014) M.S.W.
Academic & Career Adviser. M.S.W. 2008 Hunter College.

Office of Academic Innovation

Johannes De Gruyter (2012) M.A., M.Sc.
Executive Director. M.A. 2004 University of Leuven; M.Sc. 2005 University of Amsterdam.

Janelle Voegelé (1997) Ed.D.
Director, Teaching, Learning, and Assessment. Ed.D. 2011 Portland State University.

Molly A. Griffith (2008) M.S.
Associate Director of Faculty Support and Emerging Technology. M.S. 2008 Portland State University.

Samad Hinton (2014) B.S.
Associate Director of Course and Program Design. B.S. 2005 Florida A&M University.

Vicki L. Wise (2010) Ph.D.
Associate Director, Teaching, Learning & Assessment. Ph.D. 2004 University of Nebraska-Lincoln.

Kale Brewer (2013) B.A.
Instructional Multimedia Developer. B.A. 2012 Portland State University.

Kari Goin (2014) M.F.A.
Course Builder Specialist. M.F.A. 2013 University of Montana.

Aifang Gordon (2007) Ph.D.
Instructional Designer. Ph.D. 2007 Ohio University.

Lynnae Griffiths (2014) B.A.
Course Support Specialist. B.A. 2014 Portland State University.

Tauseef Hemayet (2014) M.S.
Instructional Multimedia Developer. M.S. 2014 Winona State University.

Patrice Morris Hudson (2003) M.S.
Teaching Support Specialist. M.S. 2008 Portland State University.

Samantha Johns (2015) B.A.
Accessibility-Course Support Specialist. B.A. 2011 Portland State University.

Andrew F. Lawrence (2014) M.A.
Course Support-Information Technology Specialist. M.A. 2014 Portland State University.

Marie S. Lewandowski (2003) M.Ed.
Instructional Designer. M.Ed. 1995 Kent State University.

Suzanne Matthews (2014) M.S.
Instructional Designer. M.S. 2011 St. Joseph's University.

Lisa Molinelli (2012) M.L.I.S.
Communication and Knowledge Base Specialist. M.L.I.S. 2010 Simmons College.

Toai Nguyen (2014) B.S.
Course Builder Specialist. B.S. 2007 Portland State University.

Vince Schreck (2005) Ed.D.
Instructional Designer. Ed.D. 2004 Portland State University.

Mark Terui (2010) M.A.
Instructional Designer. M.A. 2001 Pepperdine University.

Izabella Warner (2013) M.S.
Course Building Specialist. M.S. 2012 University of Canberra, Australia.

Graduate Studies

Margaret Everett (1996) Ph.D.
Dean of Graduate Studies and Vice Provost for Internationalization; Professor of Sociology. Ph.D. 1995 Yale University.

Kelly Doherty (2007) M.P.A.
Director of Graduate Admissions. M.P.A. 2010 Portland State University

Courtney Ann Hanson (2005) M.S.
Director of Graduate Academic Services. M.S. 2012 Portland State University

International Affairs

Margaret Everett (1996) Ph.D.
Vice Provost of International Affairs and Dean of Graduate Studies. Ph.D. 1995 Yale University.

Ron L. Witczak (1996) 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.

David Brandt (2011) B.A.
International Scholar & Faculty Adviser.
B.A. 1985 Whitman College.

Sharon Carstens (1987) Ph.D.
Director, Institute for Asian Studies. Ph.D.
1980 Cornell University.

Debra Z. Clemans (1997) M.A.
Financial Officer; Director of Fulbright &
Boren Programs. M.A. 1995 Portland State
University.

Alyse Collins (2004) M.A.
Assistant Director, Education Abroad. M.A.
2007 Portland State University.

Joshua N. Davis (2008) B.A.
International Student and SEVIS Adviser.
B.A. 2002 Pacific University.

Rachel Goff (2004) B.A.
Education Abroad Adviser. B.A. 2007
Portland State University.

Shpresa Halimi (2003) Ph.D.
Program Administrator/Outreach
Coordinator, Middle East Studies Center.
Ph.D. 2008 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 Adviser. M.Ed. 1997
Oregon State University.

Yoko Honda (2013) M.A.
International Student Life Adviser. M.A.
2012 Portland State University.

Christine Igarta (2000) M.A.
International Student Adviser. M.A. 2002
Portland State University.

Krista Kennedy (2014) M.S.
Sponsored Student Program Administrator.
M.S. 2010 University of Portland.

Rachel Krueger (2014) MS. Ed.

International Student Life Adviser. MS.Ed.
2011 University of Wisconsin.

Masumi Lint (2011) M.A.
Program Manager, International Special
Programs. M.A. 2006 University of Idaho.

Meiru Liu (1996) Ph.D.
Director, Confucius Institute; Assistant
Professor of Business, Chinese Language &
Culture. Ph.D. 1996 Portland State
University.

Christina Luther (1998) M.A.
Director, International Student & Scholar
Services. M.A. 1993 Portland State
University.

Megan McLaughlin (2006) M.A.
International Student Adviser. M.A. 1998
George Washington University.

Katherine Morrow (1998) B.A.
Program Administrator, Institute for Asian
Studies & Confucius Institute. B.A. 1991
Willamette University.

Sally Mudiamu (2001) M.A.
Director, PSU/Waseda Transnational
Programs. M.A. 1991 London School of
Economics & Political Science, University of
London.

Carey Myles (1998) M.A.
Instructor, PSU/ Waseda Transnational
Programs. M.A. 2001 Portland State
University.

Andrea Price (1999) M.A.
Executive Assistant, International Affairs.
M.A. 2000 Portland State University.

Nicole Sisco (2014) M.A.
Faculty-Led Programs Advisor, Education
Abroad. M.A. 2007 University of Sheffield.

Jill Townley (1997) M.S.
Associate Director of International Student
Life. M.S. 2001 Portland State 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.

Learning Center

Lisa Hatfield (2003) M.A.T.

Director, Learning Center. M.A.T. 1994
Lewis and Clark College.

Liane O'Banion (2001) M.S.
Assistant Director, Learning Center. M.S.
2000 Portland State University.

Library

Marilyn K. Moody (2012) M.S.
Dean, University Library, Professor. M.S.
1979 University of Illinois.

Linda Absher (2003) M.L.I.S.
Humanities Librarian, Associate Professor.
M.L.I.S. 1993 University of California,
Berkeley.

Sarah E. 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.

Tom Bielavitz (2006) M.L.I.S.
Assistant University Librarian for
Administrative Services, Planning, and
Digital Initiatives, Associate Professor.
M.L.I.S. 2006 Drexel University.

Michael S. Bowman (1992) M.Lib.
Engineering Librarian, Associate Professor.
M.Lib. University of Washington.

Jill Emery (2011) M.L.I.S.

Collection Development Librarian, Assistant
Professor. M.L.I.S. 1995 University of Texas
at Austin.

Emily Ford (2012) M.L.S., M.I.S.
Urban & Public Affairs Librarian, Assistant
Professor. M.L.S. 2007 Indiana University-
Bloomington; M.I.S. 2007 Indiana
University-Bloomington.

Barbara Glackin (2013) M.L.I.S.
Assistant University Librarian for Resource
Services and Technology, Associate
Professor. M.L.I.S. 1986 University of Texas
at Austin.

Arthur Hendricks (1996) M.S.
Social Sciences Librarian, Associate
Professor. M.S. 1995 University of Illinois,
Urbana-Champaign.

Mary Ellen Kenreich (1992) M.L.S., M.P.A.
Head of Acquisitions and Preservation,
Professor. M.L.S. 1980 Kent State
University; M.P.A. 1999 Portland State
University.

Kristen Kern (1998) M.L.S.

Fine and Performing Arts Librarian,
Professor. M.L.S. 1997 Emporia State
University.

Thomas 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.

Cristine Paschild (2007) M.A., M.S.I.
University Archivist and Head of Special
Collections, Associate Professor. M.A. 1994
University of Michigan, Ann Arbor; M.S.I.
2001 University of Michigan, Ann Arbor.

Kimberly Pendell (2010) M.S.I.S.
Social Work and Social Sciences Librarian,
Assistant Professor. M.S.I.S. 2005 University
of Texas, Austin.

Joan Petit (2009) M.S.L.S.
Communications and Outreach Librarian,
Associate Professor. M.S.L.S. 2006
University of North Carolina, Chapel Hill.

Robert Schroeder (2004) M.L.I.S.
Education Librarian, Associate Professor.
M.L.I.S. 1995 Wayne State University.

Wendy A. Stewart (1998) M.L.S.
Digital Resource Services Librarian,
Associate Professor. M.L.S. 1995 Syracuse
University.

Jian Wang (1999) M.L.I.S.
Electronic and Continuing Resources
Librarian, Professor. M.L.I.S. 1996 Wayne
State University.

Claudia V. Weston (2001) M.L.S.
Interim Assistant University Librarian for
Public Services and Government Information
Librarian, Professor. M.L.S. 1981 University
of Maryland.

Kimberly Willson-St. Clair (2011) M.S.
Reference & Instruction Librarian, Senior
Instructor I. M.S. 2001 University of Illinois,
Urbana-Champaign.

Qi Wu (2005) M.L.I.S.
Business Librarian, Associate Professor.
M.L.I.S. 2002 University of Illinois, Urbana-
Champaign.
Emeriti Faculty

William Abrams (1962) M.S.L.S.
Principle Serials Cataloger; Associate
Professor. M.S.L.S. 1961 Syracuse
University School of Information Studies.

Daphne T. Allen (1970) M.B.A.

Associate Professor Emerita. M.B.A. 1978
University of California, Los Angeles.

Laurence L. Bruseau (1968) M.L.S.
Associate Professor Emeritus. M.L.S. 1962
University of Michigan.

Patricia H. Byrd (1961) M.Libr.
Associate Professor Emerita. M.Libr. 1959
University of Washington.

Sharon Elteto (1997) M.L.S.
Associate Professor Emerita. M.L.S. 1997
Emporia State University.

Donald G. Frank (2000) M.A.L.S.
Professor Emeritus. M.A.L.S. 1982 Texas
Tech University.

Robert W. Lockerby (1967) M.S.
Professor Emeritus. M.S. 1979 Portland State
University.

Anne G. McMahon (1969) M.L.S.
Associate Professor Emerita. M.L.S. 1965
Pratt Institute.

Gwen E. Newborg (1969) M.A.
Professor Emerita. M.A. 1977 University of
Washington.

Oren O. Ogle (1969) M.Libr.
Associate Professor Emeritus. M.Libr. 1969
University of Washington.

C. Thomas Pfingsten (1980) M.L.S.
University Librarian Emeritus. M.L.S. 1966
University of California, Berkeley.

Faye Powell (1985) M.A.
Professor Emerita. M.A. 1982 San Francisco
State University.

Terry Rohe (1983) M.L.S.
Professor Emerita. M.L.S. 1972 University of
Oregon.

Gary S. Sampson (1972) M.L.S.
Professor Emeritus. M.L.S. 1972 University
of California, Berkeley.

Helen H. Spalding (2005) M.A., M.P.A.
Professor Emerita. M.A. 1974 University of
Iowa, M.P.A. 1985 University of Missouri-
Kansas City.

Rosalind C. Wang (1985) M.S.L.S.
Professor Emerita. M.A. 1976 Long Island
University.

Majel M. Warren (1964) B.S.L.S.
Associate Professor Emerita. B.S.L.S. 1945
George Peabody College for Teachers.

Robert C. Westover (1971) M.L.S.

Professor Emeritus. M.L.S. 1971 University
of Oregon.

William B. Wilson Jr. (1976) M.L.S.
Associate Professor Emeritus. M.L.S. 1970
University of Western Ontario (Canada).

Office of the Registrar

Cynthia H. Baccar (1999) M.S.
Registrar. M.S. 1994 University of
Tennessee.

Rossella De Leon (2011) M.A.
Residency Officer. M.A. 2014 Portland State
University.

Kathy Thomas (2002) B.S.
Associate Registrar, Student Information
Technology. B.S. 2008 Portland State
University.

Nicolle DuPont (2001) M.S.
Associate Registrar, Registration and
Records. M.S. 2010 Portland State
University.

Adam Lutzow (2007) B.A.
Assistant Registrar, Academic Scheduling.
B.A. 2001 University of Oregon.

Undergraduate Studies

Sukhwant Jhaj (2001) M. Arch.
Vice Provost for Academic Innovation and
Student Success; Dean of Undergraduate
Studies. M. Arch. 1994 Cranbrook Academy
of Art.

Office of Vice President for Enrollment Management and Student Affairs

John Fraire (2015) PhD.
Vice President, Enrollment Management &
Student Affairs. PhD. 2013 Union Institute
and University.

Sara Duerr (2007) B.S.
Interim Chief Fiscal Officer. B.S. 2002 St.
Cloud State University.

Jess Goodwin (1995) B.S.
Systems Analyst, Manager. B.S. 2003
Portland State University.

J.R. Tarabocchia (2007) J.D.
Outreach & Advancement Coordinator. J.D.
2006 University of New Hampshire School
of Law.

Enrollment Management

Cindy Skaruppa (2012) Ed.D.

Associate Vice President for Enrollment Management. Ed.D. 1993 University of Miami.

Andreen Morris (2008) M.P.A.

Executive Assistant. M.P.A. 2013 Portland State University.

Yi Cao (2012) Ph.D.

Enrollment Management Data Analyst. Ph.D. 2011 University of Minnesota.

Admissions and New Student Programs

Shannon Carr (2014) M.S.

Executive Director, Admissions & New Student Programs M.S. 2003 The University of Vermont

Robin Beavers (2011) M.A.

Assistant Director, Diversity Recruitment. M.A. 2005 Portland State University.

Kelly Craig (2013) M.S.W.

Transfer Admissions Counselor. M.S.W. 2012 Portland State University.

Samuel Dunlop (2013) M.A.

International Admissions Counselor. M.A. 2013 Portland State University

Marcella Flores (2013) M.S.

Assistant Director, Orientation. M.S. 2013 Oregon State University.

Karen Hanson (1994) B.A.

International Admissions Counselor. B.A. 1992 University of Oregon.

Erin Jensen (2011) B.A.

Admissions Counselor. B.A. 2008 Western Washington University.

Dave Kobzina (2005) M.S.

Senior Admissions Counselor. M.S. 2006 Portland State University.

Celeste Kreuger (2012) M.B.A.

Director, Undergraduate Recruitment and Transfer Student Services. M.B.A. 2008 Concordia University.

Brett McKinney (2014) M.S.

Coordinator, New Student Programs. M.S. 2011 City University of New York - Hunter College.

Kanani Porotesano (2006) M.S.

Campus Visits Coordinator. M.S. 2009 Portland State University.

Blake Red Elk (2012) M.A.

Admissions Counselor. M.A. 2015 Portland State University.

Luke H. Reyes White (2014) B.A.

Transfer Admissions Counselor B.A. 2003 University of Oregon

Nicholas Running (2011) M.A.

Commencement & Outreach Coordinator. M.A. 2014 Portland State University.

Tania Sanchez (2013) B.A.

Bilingual Admissions Counselor. B.A. 2012 Portland State University.

Christopher Skinner (2011) M.A.

Assistant Director, Admissions Evaluation. M.A. 1995 University of California, Santa Barbara.

Enrollment Management Technology Communications

Bill Ryder (1999) M.S.

Director, Enrollment Management Communication Technology. M.S. 1996 State University of New York College at Buffalo.

Student Financial Aid and Scholarships

Mike Johnson (2015) M.A.

Director, Student Financial Aid and Scholarships. M.A. 1985 Washington State University at Pullman.

Sa'eed Haji (2006) M.A.

Coordinator of Scholarships, Outreach, and Veterans. M.A. 2006 Portland State University.

Deanna Smith (1997) B.A.

Assistant Director, Student Financial Aid and Scholarships.

Heather Mattioli (2005) B.S.

Assistant Director, Student Financial Aid and Scholarships. B.S. 2003 Portland State University.

Campus Recreation

Alex Accetta (2001) M.A.

Director, Campus Recreation. M.A. 1993 Stanford University.

Jen Armbruster (2010) M.S.

Inclusive Rec and Community Services Coordinator, Campus Recreation M.S. 2000 Sam Houston State University.

Tyler Baker (2009) M.Ed.

Facility Coordinator, Campus Recreation. M.Ed. 2007 Washington State University.

Todd Bauch (2003) M.A.

Assistant Director, Campus Recreation. M.A. 1998 Southern Illinois University.

Erin Bransford (2009), M.A.

Coordinator of Fitness & Health Promotion, Campus Rec. M.A. 2009 Sonoma State University.

Ashley Campbell (2008) M.A.

Member Services Coordinator, Campus Recreation. M.A. 2014 Portland State University.

Craig Gosnell (2013) M.A.

Coordinator, Aquatics and Safety, Campus Recreation. M.A. 2012 Appalachian University.

Ann Marie Hingley (2012) M.S.

Coordinator, Outdoor Program. M.S. 2007 Southern Illinois University.

Joelle Kenney (2005) B.S.

Administrative Program Assistant, Campus Recreation. B.S. 2009 Portland State University.

Peter Kramer (2009) M.S.

Coordinator, Recreation Clubs. M.S. 2011 Portland State University.

Erin Merz (2015) M.A.

Marketing & Outreach Coordinator. M.A. 2008 New York Institute of Technology.

Atsu Nagayama (2002) B.A.

Assistant Director of Business Operations and Human Resources, Campus Recreation. B.A. 1994 Northwestern University.

Spencer Sorensen (2011) M.S.

Coordinator, Intramurals & Special Events. M.S. 2010 Oregon State University.

Jennifer Welnick (2005) M.S.

Adviser, Campus Recreation. M.S. 2005 Portland State University.

Office of the Dean of Student Life

Michele Toppe (1995) M.S.
Dean of Student Life. M.S. 1998 Portland State University.

Jessica Amo (2009) M.P.A.
Director, Women's Resource Center. M.P.A. 2008 Portland State University.

Ray Facundo (2013) M.S.W.
Coordinator, Veterans Resource Center. M.S.W. 2013 West Chester University.

Kris Fedor (2012) M.A.
Special Assistant, Dean of Student Life. M.A. 2010 DePaul University.

Chenae Garcia (2013) M.S.W.
CARE Team Case Manager M.S.W. 2013 Portland State University.

Dick Slottee (2015) J.D.
Director, Student Legal Services. J.D. 1972 University of Oregon.

Craig Leets (2013) M.A.
Coordinator, Queer Resource Center. M.A. 2011 University of Maryland.

Aimee Shattuck (2002) M.S.W.
Director, Student Activities and Leadership Programs. M.S.W. 2002 Portland State University.

Heather Spalding (2009) M.S.
Sustainability Leadership & Outreach Coordinator. M.S. 2015 Portland State University.

Domanic Thomas (2008) M.A.
Director, Conduct & Community Standards. M.A. 2005 University of Arizona.

G. Lisa Wittorff (2012) M.S.W.
Director, Services for Students with Children. M.S.W. 1988 California State University.

Diversity and Multicultural Student Services

CeCe Ridder (2012) Ph.D.
Executive Director, Diversity and Multicultural Student Services. Ph.D. 2011 The University of Texas at Austin.

Dean Azule (2006) B.S.
Coordinator Native American Student Services. B.S. 2000 Western Oregon University.

Melissa Bennett (2013) M.Div.
NASCC Program Coordinator, Cultural Centers. M.Div. 2012 Marylhurst University.

Michele Bromley (2014) M.A.
Inclusive Technology Coordinator. M.A. 2013 Oregon State University.

R. Philip Dirks (1989) M.A.
Project Director of Educational Talent Search and Upward Bound. M.A. 1983 Iowa State University.

Jen Dugger (2012) M.A.
Director, Disability Resource Center. M.A. 2005 Southeast Missouri State University.

Cynthia Gómez (1999) M.S.
Director, Cultural Centers; Faculty, University Studies. M.S. 2001 Portland State University.

Andrea Griggs (2012) M.Ed.
Coordinator of Counseling Services, TRiO - Student Support Services. M.Ed. 2008 University of Washington.

Darryl Kelley, Jr. (2006) B.A.
9th-10th Grade Adviser in Upward Bound/ETS: Project PLUS. B.A. 2002, Linfield College.

Darcy Kramer (2007) M.S.
Accommodations Coordinator. M.S. 2007 Portland State University.

Linda L. Liu (2008) M.A.
Program Director, TRiO - Student Support Services. M.A. 1998 University of Oregon.

Emanuel Magaña (2012) M.S.
Program Coordinator, La Casa Latina, Cultural Centers. M.S. 2012 Oregon State University.

Marlon Marion (2013) M.S.
Coordinator, African American Student Services. M.S. 2009 Portland State University.

Karen Morehouse (2008) M.S.
Intake Specialist. M.S. 2002 Portland State University.

Quan H. Nguyen (2009) B.S.
Upward Bound/ETS Adviser. B.S. 2009 Portland State University.

Perla Pinedo (2008) M.A.
Director, Retention Programs. M.A. 2006 Portland State University.

Brenda Ramos (2008) B.S.
Portland Middle School Educational Coordinator ETS: Project PLUS. B.S. 2006 Portland State University.

Stacie Taniguchi (2014) M.A.
Program Coordinator, Multicultural Center, Cultural Centers. M.Ed. 2014 University of West Georgia.

Rosalyn Taylor (2003) M.Ed.
Coordinator of Instruction/Adviser, TRiO - Student Support Services. M.Ed. 1995 Temple University.

Housing and Residence Life

Mike Walsh (2013) Ed.D.
Director, Housing and Residence Life. Ed.D. 2013 Portland State University.

Courtney Sandler (2010) M.Ed.
Associate Director, Housing and Residence Life. M.Ed. 2006 Western Carolina University.

Center for Student Health and Counseling

Dana Tasson (1998) M.D.
Executive Director, Center for Student Health & Counseling; Psychiatrist. M.D. 1993 University of Michigan.

Angela Abel (2006) M.S.
Marketing & Communications Coordinator. M.S. 2006 Portland State University.

Julie Weissbuch Allina (2013) M.S.W.
Director, Health Promotion & Education. M.S.W. 2001 St. Louis University.

Gwyn Ashcom (1999) M.P.H.
Health Educator. M.P.H. 2006 Portland State University.

Mark Bajorek (1996) M.D.
Director, Health Services; Physician. M.D. 1986 Ohio State University.

Susan E. Captein (1992) M.S.W., L.C.S.W.
Clinical Social Worker. M.S.W. 1984 Portland State University.

Jessica L. Cole (2003) M.P.H.
Associate Director, Center for Student Health & Counseling. M.P.H. 2014 Portland State University.

Keith Conant (2001) M.D.
Psychiatrist. M.D. 1997 Oregon Health & Science University.

Leslie Culligan (2005) R.D.H., B.S.
Director, Dental Services; Registered Dental Hygienist. B.S. 2001 Concordia University.

Jennifer Dahlin (2003) Psy.D.
Psychologist. Psy.D. 2004 Pacific University.

Cheryl Forster (2004) Psy.D.
Psychologist. Psy.D. 2004 Pacific University.

Aleksandra Giedwoyn (2004) M.D.
Physician. M.D. 1998 Karol Marcinkowski
University.

Chandra Gilder (2006) B.A.
Operations Manager. B.A. 2006 University
of Nevada, Reno.

Annika Ginsberg (2012) R.D., L.D.
Registered Dietitian. R.D., L.D. 2008
University of Idaho.

Heather Goah (2006) M.S.
Testing Operations Supervisor. M.S. 2004
Portland State University.

Tim Hagge (1992) M.S.W., L.C.S.W.
Clinical Social Worker. M.S.W. 1992
Portland State University.

Chris Hanel (2001) M.D.
Physician. M.D. 1997 Oregon Health &
Science University.

Chris Hodson (2002) Ph.D.
Psychologist. Ph.D. 2002 University of
Southern California.

Marcy Hunt (2010) Ph.D.
Director, Counseling Services; Psychologist.
Ph.D. 2002 University of Oregon.

Janice Klein Kettler (1988) M.S.W.,
L.C.S.W.
Clinical Social Worker. M.S.W. 1974
University of Michigan.

Lisa Koralewicz (2006) M.P.H., M.S.W.,
L.C.S.W.
Clinical Social Worker. M.P.H. 1997 SUNY
at Albany; M.S.W. 2003 Colorado State
University.

Karen Ledbetter (1997) Psy.D.
Psychologist. Psy.D. 1997 Rosemead School
of Psychology.

Peter Mahr (2012) M.D.
Physician. M.D. 1998 Dartmouth Medical
School.

Nick Walden Poublon (2011) M.A.
Student Insurance Advisor. M.A. 2011
Portland State University.

Carla Riedlinger (2003) M.S.W., L.C.S.W.
Clinical Social Worker. M.S.W. 1998
Portland State University.

Noelle Savatta (2008) Ph.D.
Psychologist. Ph.D. 2007 University of
Georgia.

Dawn Schneider (2007) M.S.W., L.C.S.W.
Clinical Social Worker. M.S.W. 1985
Portland State University.

Diane Smith (2003) B.S.
Director, Testing Services. B.S. 1990
Portland State University.

Rosemary Sotta (2007) D.M.D.
Dentist. D.M.D. 1983 Oregon Health &
Science University.

Gabrielle Sysyn (2008) B.A.
Executive Administrative Coordinator. B.A.
2007 Portland State University.

Tuan Truong (2005) D.M.D.
Dentist. D.M.D. 2004 Oregon Health &
Science University.

Alan Yeo (2004) M.D.
Psychiatrist. M.D. 2000 Oregon Health &
Science University.

Christi Ziegler (2011) B.S.
Insurance Coordinator. B.S. 1993
Bloomsburg University.

Office of Vice President for Finance and Administration

Kevin Reynolds (2005) Ph.D.
Vice President for Finance and
Administration. Ph.D. 1987 University of
Southampton.

Don Forsythe (1999) M.S.Ec.
Treasurer and University Debt Manager.
M.S.Ec. 2005 Portland State University.

Brian Roy (2013) J.D.
University Risk Manager. J.D. 2002
Louisiana State University.

Planning, Construction, and Real Estate

Dan Zalkow (2000) M.U.R.P.
Executive Director for Planning,
Construction and Real Estate. M.U.R.P. 2004
Portland State University.

Jason Franklin (2012) M.U.R.P.
Director of Campus Planning and Design.
M.U.R.P. 1997 Portland State University.

Ron Blaj (2011) M.S.
Director of Capital Projects and
Construction. M.S. 1980 Stanford University.

Jenny McNamara (2003) B.A.

Campus Sustainability Manager. Human
Ecology & Sustainable Systems. B.A. 2003
University of North Carolina Greensboro.

Viron Lynch (2014) M.B.A.
Director, Facilities and Property
Management. M.B.A. 2010 Weber State
University.

Ian Stude (2004)
Director, Transportation & Parking Services.

Campus Public Safety

Phillip Zerzan (2011) B.A.
Chief, Campus Public Safety Office. B.A.
2007 Oregon State University.

Human Resources

Shana Sechrist (2011) J.D.
Associate Vice President for Human
Resources. J.D. 1999 Harvard University.

Ramon Diaz (2013) M.A.
Director of Employee and Labor Relations.
M.A. 2011 University of Hawai'i at Manoa.

Kerry Gilbreth (2011) B.S.
Director for Human Resources, Benefits,
Leaves, and Front Desk Operations. B.S.
2011 University of Oregon.

Pam Hutchins (1981)
Associate Director for Human Resources,
Payroll, HRIS and Compensation.

Information Technology

Ryan Bass (2005) M.B.A.
Senior Director, Computing Infrastructure
Services. M.B.A. 2009 Portland State
University.

Kirk Kelly (2011) M.S.
Associate Vice President and Chief
Information Officer. M.S. 2005 University of
Phoenix.

Brenna Kutch (2008) B.S.
Administrative Services Manager. B.S. 2012
Portland State University.

Chuck Lanham (2013) M.B.A.
Associate CIO, Academic and Customer
Services. M.B.A. 2013 University of Idaho.

Doug McCartney (2000) M.Ed.
Director, Instructional Technology Services.
M.Ed. 1984 University of Toledo.

Jerrod Thomas (2008) M.S.
Director, User Support Services. M.S. 2015
Portland State University.

Ellen Weeks (2005) M.Ed.
Senior Director, Enterprise Solutions. M.Ed.
1991 Portland State University.

Cher Wildenborg (2012) B.S.
Fiscal Officer. B.S. 1995 Central Washington
University.

University Financial Services

Alan Finn (2012) M.P.A.
Associate Vice President, Finance and
Budget. M.P.A. 2011 State University of
New York at Albany.

Noor Delaughn (2005) M.B.A., C.P.L.P.
Assistant Director. M.B.A. 2010 Portland
State University.

Keren Ceballos (2014)
Budget Director.

Jennifer Kahl (2015) C.P.A.
University Contoller.

Darin Matthews (2012) M.A.M.
Director of Contracting and Procurement.
M.A.M. 2012 American Graduate University.

Amanda Nguyen (2009) M.B.A.
Director of Student Financial Services.
M.B.A. 2008 Marylhurst University.

Office of General Counsel

David Reese (2007) J.D.
General Counsel and Secretary to the Board
of Trustees. J.D. 1998 University of
Michigan.

Michael Grieser (2011) J.D.
Assistant General Counsel. J.D. 2003 Lewis
& Clark Law School.

Cynthia J. Starke (2014) J.D.
Assistant General Counsel. J.D. 2000
Harvard Law School.

Krista S. Stearns (2014) J.D.
Assistant General Counsel. J.D. 1992
University of Minnesota Law School.

Office of Global Diversity and Inclusion

Chas Lopez (2011) J.D.
Interim Chief Diversity Officer. J.D. 1994
University of Utah, School of Law.

Julie Caron (2011) J.D.
Equity and Compliance Investigator; Title IX
Coordinator. J.D. 1989 Northwestern School
of Law, Lewis and Clark College.

Christina Tubb (2013) J.D.

Equity and Compliance Investigator. J.D.
2000 University of Denver, College of Law.

Ed Washington (1993) B.S.
Community Liaison for Diversity Initiatives.
B.S. 1974 Portland State University.

Office of Government Relations

Mary R. Moller (2008) B.A.
Director of Local and Federal Government
Relations. B.A. 2002 Portland State
University.

Debbie Koreski (2011) B.A.
Director of State Government Relations. B.A.
1997 Mississippi State University.

**Office of Institutional Research and
Planning**

Kathi A. Ketcheson (1985) Ph.D.
Director, Institutional Research and
Planning; Research Professor. Ph.D. 1996
Portland State University

David Burgess (1999) M.S.
Associate Director. M.S. 1996 Portland State
University

Lina Lu (1999) Ed.D.
Research Associate Professor. Ed.D. 1997
Portland State University

Jason Gettel (2014) M.S.
Research Analyst. M.S. 2010 University of
Oregon

Zach Markiss (2013) M.S.
Research Analyst. M.S. 2009 University of
Idaho

**Office of Vice President for Research and
Strategic Partnerships**

Dawn Boatman (2008) M.A.
Director, Sponsored Projects Administration.
M.A. 1994 University of North Florida.

Jonathan Fink (2010) Ph.D.
Vice President for Research and Strategic
Partnerships. Ph.D. 1979 Stanford
University.

Erin Flynn (2011) Ph.D.
Associate Vice President for Strategic
Partnerships. Ph.D. 2001 Massachusetts
Institute of Technology.

Angela Jackson (2010) M.A.
Director, Portland State Business
Accelerator. M.A. 1993 University of
Oregon.

Joseph Janda (2008) M.B.A.
Director, Innovation and Intellectual
Property. M.B.A. 2004 State University of
New York at Stony Brook.

Alan Kolibaba (1977) B.S.
Assistant Vice President for Research. B.S.
1980 Portland State University.

Lorraine McConnel (2012) M.B.A.
Director, Research Integrity. M.B.A. 1984
Washington State University.

Mark D. Sytsma (1994) Ph.D.
Associate Vice President for Research;
Associate Professor of Environmental
Science. Ph.D. 1992 University of California,
Davis.

Sinnamon Tierney (2005) M.P.A.
Assistant Director, Departmental Research
Administration. M.P.A. 2000 The Evergreen
State College.

Jennifer Ward (2012) B.A.
Associate Director, Sponsored Projects
Administration. B.A. University of Colorado
at Boulder.

Institute for Sustainable Solutions

Jennifer Allen (2009) Ph.D.
Director, Institute for Sustainable Solutions;
Associate Professor of Public
Administration. Ph.D. 1996 George Mason
University.

Elizabeth Lloyd-Pool (2001) B.S.
Program Manager. B.S. 2001. Portland State
University.

Fletcher Beaudoin (2009) M.P.A.
Assistant Director. M.P.A. 2009. Columbia
University.

Laura Gleim (2011) M.A.
Communications Coordinator. M.A. 2012
Portland State University.

Tania Hoode (2012) B.A.
Program Assistant. B.A. 1997 The Evergreen
State College.

Jacob Sherman (2010) M.A.
Undergraduate Research, Engagement, and
Creative Activities Coordinator. M.A. 2012
Portland State University.

Scott Shlaes (2012) B.A.
Director of Development for Sustainability
Initiatives. B.A. 1998 College of Wooster.

Heather Spalding (2009) B.S.

Sustainability Leadership and Outreach Coordinator. B.S. 2009. Portland State University.

Christina Williams (2013) M.J. Communications Director. M.J. 1997 University of California Berkeley.

Faculty Fellows

Randall Bluffstone (2003) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor of Economics. Ph.D. 1993 Boston University.

Darrell Brown (1994) Ph.D., C.P.A. Associate Dean for Undergraduate Programs; KPMG Les Fahey Faculty Fellow; Faculty Fellow, Institute for Sustainable Solutions; Professor of Business Administration. Ph.D. 1994 University of Utah.

Heejun Chang (2001) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Geography. Ph.D. 2001 Pennsylvania State University.

Kelly Clifton (2010) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Civil and Environmental Engineering. Ph.D. 2001 University of Texas, Austin.

Tugrul Daim (1997) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Engineering and Technology Management. Ph.D. 1997 Portland State University.

Veronica Dujon (1995) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor of Sociology. Ph.D. 1995 University of Wisconsin.

David E. Ervin (1999) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor of Environmental Studies. Ph.D. 1974 Oregon State University.

Harrell Fletcher (2004) M.F.A. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Art. M.F.A. 1994 California College of Arts & Crafts.

Sean Gordon (2012) Ph.D. Faculty Fellow, Institute for Sustainable Solutions. Ph.D. 2006 Oregon State University.

Elise Granek (2006) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Assistant Professor of

Environmental Science. Ph.D. 2006 Oregon State University.

Huafen Hu (2010) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Assistant Professor of Mechanical and Materials Engineering. Ph.D. 2009 Georgia Institute of Technology.

Roy Koch (1982) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor Emeritus of Civil Engineering and Environmental Science; Provost and Vice President Emeritus for Academic Affairs. Ph.D. 1982 Colorado State University.

Loren Lutzenhiser (2002) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor of Urban Studies and Planning. Ph.D. 1988 University of California, Davis.

R. Scott Marshall (2000) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor of Business Administration. Ph.D. 2000 University of Oregon.

Rebecca McClain (2012) Ph.D. Faculty Fellow, Institute for Sustainable Solutions. Ph.D. 2000 University of Washington.

Barry Messer (1997) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor Emeritus of Urban Studies and Planning. Ph.D. 1994 Portland State University.

Thaddeus Miller (2011) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Assistant Professor of Urban Studies and Planning. Ph.D. 2011 Arizona State University.

Sergio Palleroni (2008) M.S.Arch. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Architecture. M.S.Arch. 2006 Massachusetts Institute of Technology.

James Pankow (2008) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor of Chemistry and Civil and Environmental Engineering. Ph.D. 1979 California Institute of Technology.

Brian Ruder (2007) M.S. Faculty Fellow, Institute for Sustainable Solutions; Instructor of Business

Administration. M.s. 1966 Kansas State University.

Robert Scheller (2009) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Assistant Professor of Environmental Science. Ph.D. 2004 University of Wisconsin Madison.

Vivek Shandas (2005) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Urban Studies and Planning. Ph.D. 2005 University of Washington.

Evan Thomas (2010) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Assistant Professor of Mechanical and Materials Engineering. Ph.D. 2009. University of Colorado, Boulder.

Wayne Wakeland (1978) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Systems Science. Ph.D. 1977 Portland State University.

J. Alan Yeakley (1994) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor of Environmental Science and Management. Ph.D. 1993 University of Virginia.

Bryant York (2004) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Professor of Computer Science. Ph.D. 1981 University of Massachusetts, Amherst.

Office of Portland State University Foundation

Françoise Aylmer (2010) M.A. CFRE 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. Executive Director of Alumni Engagement. M.A. 2004 Northwestern University.

Development

Kristin A. Coppola (2009) B.A. Chief Development Officer, Vice President for Development. B.A. 1990 American University.

Meagan Bataran (2013) B.S.
Director of Annual Giving. B.S. 2013
Michigan State University.

Paul Carey (2015) M.B.A.
Chief Financial Officer, Associate Vice
President of Development. M.B.A. 2000
Chapman University.

Lauren Clark (2014) B.A.
Development Officer, Scholarships and
Campaigns. B.A. 2007 Washington State
University.

Danielle Cox (2007) B.S.
Director of Development. B.S. 2003 Oregon
State University.

Elizabeth Frawley (2011) B.A.
Director of Development, Regional. B.A.
2009 Willamette University.

Crystal Froembling (2006) M.P.A.
Development Officer, Scholarships and
Campaigns. M.P.A. 2013 Portland State
University.

Betsy Fry (2014) B.A.
Director of Development, MCECS. B.A.
University of Oregon.

Brian Hess (2014) B.S.
Senior Director of Corporate and Foundation
Relations. B.S. 1995 Willamette University

Jaymee Jacoby (2012) M.P.A.
Director of Development, GSE. M.P.A. 2008
Portland State University.

Rick Jung (2014) M.N.M.
Director of Development, SSW & CUPA.
M.N.M. Regis University.

Kristen Norquist (2014) B.A.
Director of Development, Campaigns. B.A.
University of California, Santa Cruz.

Ann Prater (2012) M.A.
Senior Director of Development. M.A. 2010
California State University, Chico.

Leslie Katharine Reed (2014) M.B.A.
Director of Development, COTA. M.B.A.
Indiana University.

Pat Regan (2014) B.S.
Senior Director of Development, CLAS. B.S.
1983 University of Portland.

Sarah Schwarz (2014) J.D.
Director of Planned Giving. J.D. 1996 Drake
University Law School.

Scott Shlaes (2011) B.A.

Director of Development, Sustainability
Initiatives. B.A. 1998 College of Wooster .

Karie Trumbo (2012) M.P.A.
Major Gifts Officer, CLAS. M.P.A. 2006
Portland State University.

Finance

Paul Carey (2015) M.B.A.
Chief Financial Officer, Associate Vice
President of Development. M.B.A. 2000
Chapman University.

Phuong Lam (1988) B.S.
Controller. B.S. 1988 Portland State
University.

Operations and Advancement Services

Steve Arndt (2014) B.A.
IT Director. B.A. 1981 Washington State
University.

Meg Evans (2014) M.A.
Board Liaison. M.A. 1990 Clark University.

Lisa Gray (2013) B.A.
Chief Operating Officer, Vice President of
Operations. B.A. University of the Puget
Sound.

Gayle Schneider (1999) B.A.
Director of Operations. B.A. 1977 Michigan
State University.

Stacy Schoo (2010) M.L.I.S.
Director of Research and Relationship
Management. M.L.I.S. 2007 University of
California, Los Angeles.

Tammy Spencer (2015) B.S.
Senior Director of Marketing and
Communications. B.S. University of Oregon.

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 and Marketing

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.

Scott Gallagher (2008) Ph.D.

Director of Communications. Ph.D. 2003
Ohio University.

Julie Smith (2000) B.S.
Director of Marketing. B.S. 1993 Oregon
State University.

Jean Tuomi (1998) B.A.
Director of Creative Services. B.A. 1986
University of Oregon.

Academic Faculty

College of the Arts

Wm. Robert Bucker (2013) D.M.A.
Dean, College of the Arts; Professor of
Music. D.M.A. 1991 University of Missouri-
Kansas City.

Sue Taylor (1997) Ph.D.
Associate Dean, College of the Arts;
Professor of Art History. Ph.D. 1996
University of Chicago.

School of Architecture Faculty

L. Rudolph Barton (1988) M.Arch.
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.
Research Associate. M.Arch. 2013
University of Texas at Austin.

Corey Griffin (2009) M.Arch.
Assistant Professor of Architecture. M.Arch.
2005 University of California, Berkeley.

Juan Heredia (2010) Ph.D.
Assistant 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.
Assistant Professor of Architecture, M.Arch.
1990 University of Pennsylvania.

Sergio Palleroni (2008) M.S.Arch.
Professor of Architecture, M.S.Arch. 2006
Massachusetts Institute of Technology.

Jeff Schnabel (2007) M.Arch.

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.

Nora Wendl (2010) M.Arch.
Assistant Professor of Architecture. M.Arch.
2006 Iowa State University.

Aaron Whelton (2010) M.Arch.
Assistant Professor of Architecture. M.Arch.
2002 University of California, Los Angeles.

B.D. Wortham-Galvin (2010) Ph.D.
Assistant Professor of Architecture. Ph.D.
2006 Massachusetts Institute of Technology.

School of Art & Design
Faculty

Kate Bingaman-Burt (2008) M.F.A.
Associate Professor of Art, M.F.A. 2004
University of Nebraska.

Patricia Boas (2010) M.F.A.
Director, School of Art and Design; Assistant
Professor of Art. M.F.A. 2000 Portland State
University.

Horia Boboia (2001) M.F.A.
Professor of Art. M.F.A. 1985 California
Institute of the Arts, Los Angeles.

Lis Charman (2000) M.F.A.
Professor of Art. M.F.A. 1992 California
Institute of the Arts.

Eleanor H. Erskine (1995) M.F.A.
Associate Professor of Art. M.F.A. 1988
Cranbrook Academy of Art.

Tia Factor (2013) M.F.A.
Instructor. M.F.A. 2001 University of
California at Berkeley.

Harrell Fletcher (2004) M.F.A.
Associate Professor of Art. M.F.A. 1994
California College of Arts & Crafts.

Erik Geschke (2007) M.F.A.
Associate Professor of Art. M.F.A. 2001
Maryland Institute College of Art.

Susan J. Harlan (1992) M.F.A.
Professor of Art. M.F.A. 1975 University of
Miami.

Thomas Hines (2012) M.F.A.
Assistant Professor of Art. M.F.A. 2012
Parsons the New School.

Meredith James (2014) M.F.A.

Assistant Professor of Art. M.F.A. 2008
Cranbrook Academy of Art.

Lisa Jarrett (2013) M.F.A.
Assistant Professor, James DePreist Visiting
Professor of Art. M.F.A. 2009 The
University of Montana.

Junghee Lee (1995) Ph.D.
Professor of Art, Ph.D. 1984 University of
California, Los Angeles.

Briar Levit (2012) M.A.
Assistant Professor of Art. M.A. 2005
Central Saint Martins College of Art and
Design.

Jesse Locker (2009) Ph.D.
Assistant Professor of Art. Ph.D. 2007 Johns
Hopkins University.

Anne McClanan (1999) Ph.D.
Professor of Art. Ph.D. 1997 Harvard
University.

Julie Perini (2011) M.F.A.
Assistant Professor of Art. M.F.A. 2006
University at Buffalo.

Carmen Ripollés (2013) Ph.D.

Assistant Professor of Art. Ph.D. 2010
University of Illinois at Urbana-Champaign.

Sue Taylor (1997) Ph.D.
Professor of Art. Ph.D. 1996 University of
Chicago.

Ian Whitmore (2010) M.F.A.
Assistant Professor of Art. M.F.A. 2007
Indiana University, Bloomington.
Emeriti Faculty

Lisa F. Andrus-Rivera (1976) Ph.D.
Professor Emerita of Art. Ph.D. 1976
Columbia University.

Craig G. Cheshire (1964) M.F.A.
Professor Emeritus of Art. M.F.A. 1961
University of Oregon.

Charles Colbert (2000) Ph.D.
Assistant Professor Emeritus of Art. Ph.D.
1978 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.

Jean K. Glazer (1959) M.A.

Professor Emerita of Art. M.A. 1948 Institute
of Design, Illinois Institute of Technology.

James L. Hansen (1964) Cert-Fine Arts
Professor Emeritus of Art. Cert-Fine Arts
1951 Portland Museum Art School.

James S. Hibbard (1967) M.A.
Professor Emeritus of Art. M.A. 1966
University of Iowa.

L. Robert Kasal (1964) M.A.
Professor Emeritus of Art. M.A. 1969
University of California, Berkeley.

Melvin Katz (1966) Cert-Fine Arts
Professor Emeritus of Art. Cert-Fine Arts
1953 Cooper Union.

Michihiro Kosuge (1978) M.F.A.
Professor Emeritus of Art. M.F.A. 1970 San
Francisco Art Institute.

Jane Kristof (1973) Ph.D.
Professor Emerita of Art. Ph.D. 1972
Columbia University.

Robert Morton (1963) M.F.A.
Professor Emeritus of Art. M.F.A. 1957
University of Washington.

Daniel Pirofsky (1998) B.A.
Assistant Professor Emeritus of Art. B.A.
1989 Naropa Institute.

Rita J. Robillard (1999) M.F.A.
Professor Emeritus of Art. M.F.A. 1981
University of California, Berkeley.

Emily L. Young (1987) M.Ed.
Professor Emerita of Art. M.Ed. 1964
University of Florida.

School of Music
Faculty

Ronald D. Babcock (1988) D.M.A.
Associate Professor of Music (music
education). D.M.A. 1993 University of North
Texas.

David Bamonte (2007) M.M.
Assistant 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.
Assistant Professor of Music (flute). 1996
D.M.A. University of Houston.

- Susan Chan (2004) D.M.A.
Associate Professor of Music (piano).
D.M.A. 1994 Indiana University.
- Hamilton Cheifetz (1977)
Professor of Music (cello).
- George Colligan (2011) M.A.
Assistant Professor of Music (jazz). M.A.
2007 Queens College.
- Debbie Glaze (2003) M.M.
Associate Professor of Music (music
education). M.M. 1985 San Jose State
University.
- Darrell Grant (1997) M.M.
Professor of Music (jazz). M.M. 1986
University of Miami.
- Charles Gray (1988) M.M.
Professor of Music (jazz). M.M. 1988 North
Texas State University.
- 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, Director of
Bands. D.M.A. 2000 University of Missouri-
Kansas City.
- Bryan Johanson (1978) B.S.
Professor of Music (guitar, composition).
B.S. 1975 Portland State University.
- Wynn Kiyama (2010) Ph.D.
Assistant Professor of Music (musicology)
Ph.D. 2009 New York University.
- Christine Meadows (2006) M.M.
Associate Professor of Music (voice, opera).
M.M. 1985 Indiana State University.
- Bonnie Miksch (2004) D.M.A.
Director, School of Music; Associate
Professor of Music (composition). D.M.A.
1998 University of Cincinnati.
- Melissa Robinson (2009) D.M.A.
Assistant Professor of Music (horn). 2008
D.M.A. University of Kansas.
- Ken Selden (2006) D.M.A.
Associate Professor of Music (orchestra).
D.M.A. 2005 Peabody Conservatory.
- Carol A. Sindell (1977) B.M.
Professor of Music (violin). B.M. 1969
Oberlin College.
- Ethan Sperry (2010) D.M.A.
Associate 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.
Emeriti Faculty
- Bruce S. Browne (1978) D.M.A.
Professor Emeritus of Music. D.M.A. 1976
University of Washington.
- David Jimerson (1983) M.M.
Associate Professor Emeritus of Music.
M.M. 1972 University of Arizona.
- 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.
- Wilma F. Sheridan (1959) Ph.D.
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.
- Gordon A. Solie (1960) M.M.
Professor Emeritus of Music. M.M. 1968
University of Arizona.
- William P. Stalnaker, Jr. (1968) Ph.D.
Professor Emeritus of Music. Ph.D. 1968
Princeton University.
- Thomas S. Stanford (1981) D.M.A.
Professor Emeritus of Music. D.M.A. 1983
University of Oregon.
- Tomas Svoboda (1970) M.M.
Professor Emeritus of Music. Prof. M.M.
1969 University of Southern California.
- Gerald Webster (1994) M.M.
Professor Emeritus of Music. M.M. 1966
Indiana University.
Associated Faculty
- Ron Blessinger (2013)
Violin and Contemporary Music Specialist.
- Jeffrey Elliott (2013)
Luthier and Instrument Construction.
- Monica Huggett (1999)
Baroque Violin.
- Bruce Lindley (2008)
Piano Technology.
- Kristine McIntyre (2013) M.A.
Operatic Stage Director. M.A. 1993
University of Hull.
- John Mery (2010)
Guitar Performance. M.M. 1996 University
of Arizona.
- Gayle Neuman (1992) B.S.
Early Music. B.S. 1978 Southern Oregon
State College.
- Philip Neuman (1992) B.S.
Early Music. B.S. 1978 Southern Oregon
State College.
- School of Theatre and Film
Faculty*
- Mark Berrettini (2007) Ph.D.
Director, School of Theater and Film; Film
Program Head; Associate Professor of Film.
Ph.D. 2000 University of Rochester.
- Karin Magaldi (1999) M.F.A.
Associate Director, School of Theater and
Film; Professor of Theater Arts. M.F.A. 1980
University of California, Los Angeles.
- Devon Allen (2005) M.F.A.
Professor of Theater Arts. M.F.A. 1992
University of California, San Diego.
- Drew Beard (2015) Ph.D.
Instructor of Film. Ph.D. 2012 University of
Oregon.
- Amy Borden (2012) Ph.D.
Assistant Professor of Film. Ph.D. 2010
University of Pittsburgh.
- Courtney Hermann (2015) M.F.A.
Instructor of Film. M.F.A. 2000 Columbia
College Chicago.
- Alison Heryer (2013) M.F.A.
Assistant Professor of Costume Design.
M.F.A. 2010 The University of Texas at
Austin.
- Kristin Hole (2014) Ph.D.
Instructor of Film. Ph.D. 2014 Stony Brook
University, The State University of New
York.
- Bruce A. Keller (1988) M.A.
Professor of Theater Arts. M.A. 1987 Case
Western Reserve University.

Tere Mathern (2015) M.A.
Instructor of Dance. M.A. New York
University.

Matt McCormick (2015) M.F.A.
Instructor of Film. M.F.A. 2015 University
At Buffalo, The State University of New
York.

Daniel Meeker (2012) M.F.A.
Assistant Professor of Theater Arts. M.F.A.
1998 Yale University.

Dustin Morrow (2011) M.F.A.
Assistant Professor of Film. M.F.A. 2003
University of Iowa.

Richard J. Wattenberg (1990) Ph.D.
Professor of Theater Arts. Ph.D. 1979
University of Wisconsin, Madison.
Emeriti Faculty

Sarah Andrews-Collier (1981) M.A.
Professor Emerita of Theater Arts. M.A.
1996 University of London (U.K.).

Jack Lee Featheringill (1970) M.A.
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.

Judy Patton (1978) M.A.
Professor Emerita of Dance. M.A. 1996 Reed
College.

William M. Tate (1968) M.A.
Professor Emeritus of Theater Arts. M.A.
1967 University of Birmingham (U.K.).

School of Business Administration

Daniel Connolly (2015) Ph.D.
Dean, School of Business
Administration. Ph.D. 1999 Virginia
Polytechnic University and State University.

Accounting Faculty

Elizabeth Almer (2001) Ph.D., C.P.A.
Retzlaff Director in Accounting, Professor of
Business Administration. Ph.D. Arizona
State University.

Darrell Brown (1994) Ph.D., C.P.A.
Academic Director for Sustainability; KPMG
Les Fahey Faculty Fellow; Professor of
Business Administration. Ph.D. 1994
University of Utah.

Tyee Carr (2005) M.A.C.C.

Sr. Instructor I of Business Administration.
M.A.C.C. 2001 University of Oregon.

Cass Hausserman (2014) Ph.D.
Assistant Professor of Business
Administration. Ph.D. 2014 University of
Wisconsin-Madison.

David Layzell (2003) M.A., F.C.A.
Instructor of Business Administration. M.A.
1978 Exeter University.

Joleen Kremin (2014) Ph.D.
Assistant Professor of Business
Administration. Ph.D. 2014 Texas Tech
University.

Donna R. Philbrick (1984) Ph.D., C.P.A.
Professor of Business Administration. Ph.D.
1984 Cornell University.

Kathy Hertz Rupley (2006) Ph.D., C.P.A.
Associate Professor of Business
Administration. Ph.D. 2006 University of
Washington.

Mike Schuster (2002) M.B.A.
Sr. Instructor I of Business Administration.
M.B.A. City University, C.M.A.

Kristi Yuthas (1999) Ph.D.
Swigert Professor in Information Systems;
Professor of Business Administration. B.S.
1982, Ph.D. 1990 University of Utah.
Emeriti Faculty

Jesse Dillard (2003) Ph.D.
Professor Emeritus of Business
Administration. Ph.D. 1976 University of
South Carolina.

Michael R. Gaines (1965) Ph.D., C.P.A.
Professor Emeritus of Business
Administration. Ph.D. 1969 University of
Washington; C.P.A.

H. Thomas Johnson (1988) Ph.D.
Professor Emeritus of Business
Administration. Ph.D. 1969 University of
Wisconsin.

Raymond N. Johnson (1980) Ph.D.
Professor Emeritus of Business
Administration. Ph.D. 1981 University of
Oregon.

William Kenny (1985) J.D.
Professor Emeritus of Business
Administration. J.D. 1973 Gonzaga
University School of Law.

Richard Sapp (1978) Ph.D., C.P.A.

Professor Emeritus of Business
Administration. Ph.D. 1978 University of
Houston.

Donald L. Tang (1966) M.A., C.P.A.
Professor Emeritus of Business
Administration. M.A. 1961 University of
North Dakota; C.P.A.

Richard H. Visse (1976) Ph.D., C.P.A.
Professor Emeritus of Business
Administration. Ph.D. 1974 Arizona State
University; C.P.A.

Finance Faculty

Brian Bolton (2011) Ph.D.
Associate Professor of Finance. Ph.D. 2006
University of Colorado, Boulder.

Janet Hamilton (1986) Ph.D.
Associate Professor of Business
Administration. Ph.D. 1986 Michigan State
University.

Qin Lian (2015) Ph.D.
Cameron Professor in Finance; Assistant
Professor of Business Administration. Ph.D.
2007 University of Alabama.

Piman Limpaphayon (2011) Ph.D.
Associate Professor of Finance. PhD 1998
University of Rhode Island.

Gerard C.S. Mildner (1991) Ph.D.
Associate Professor of Real Estate. Ph.D.
1991 New York University.

Dave Nickel (2011) M.B.A.
Academic Director, M.S.F.A. Program. 1992
M.B.A. Indiana 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.

Emeriti Faculty

Leslie P. Anderson (1986) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1960 University of Wisconsin.

Beverly Fuller (1987) Ph.D.
Associate Professor Emerita of Business Administration. Ph.D. 1987 Virginia Polytechnic Institute and State University.

Chi-Cheng Hsia (1987) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1974 University of California.

James H. Hugon (1962) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1964 University of Washington.

John W. Settle (1984) Ph.D.
Associate Professor Emeritus of Business Administration. Ph.D. 1978 University of Washington.

Gerald D. Wygant (1970) J.D.
Assistant Professor Emeritus of Business Administration. J.D. 1960 Northwestern College of Law.

Management
Faculty

Cliff Allen (2008) Ph.D.
Associate Dean of Graduate Programs. Ph.D. 2010 Gonzaga University.

Melissa Appleyard (2003) Ph.D.
Ames Professor in Management of Innovation and Technology; Associate Professor of Business Administration. Ph.D. 1997 University of California, Berkeley.

Talya N. Bauer (1994) Ph.D.
Cameron Professor in Management; Professor of Business Administration. Ph.D. 1994 Purdue University.

Alan M. Cabelly (1980) Ph.D.
Professor of Business Administration. Ph.D. 1979 University of Washington.

Daniel Connolly (2015) Ph.D.
Dean; Professor of Business Administration. Ph.D. 1999 Virginia Polytechnic University and State University.

Brenda Eichelberger (1998) M.B.A.
Senior Instructor II in Business Administration. M.B.A. Portland State University.

Jeanne Enders (2000) Ph.D.
Assistant Professor of Business Administration. Ph.D. 1997 University of Chicago.

Berrin Erdogan (2002) Ph.D.
Professor of Business Administration. Ph.D. 2002 University of Illinois, Chicago.

David Garten (2005) M.B.A., M.S.
Instructor in Business Administration. M.B.A. 1987 M.I.T., Sloan School of Management; M.S. Engineering 1985 Rensselaer Polytechnic Institute.

David L. Hansen (1999) M.B.A.
Senior Instructor II in Business Administration. M.B.A. 1997 Portland State University.

Tien M. James (2004) D.O., M.B.A.
Assistant Professor of Business Administration. M.B.A. 1997 William Woods University.

Bill Jones (2009) Ph.D.
Business Strategies Coordinator. Ph.D. 1985 Columbia University.

Ted Khoury (2011) Ph.D.
Assistant Professor of Business Administration. Ph.D. 2008 University of Texas, Dallas.

Jennifer C. Loney (1991) M.B.A.
Senior Instructor I in Business Administration. M.B.A. 1986 Portland State University.

Brian McCarthy (2001) M.B.A.
Instructor of Business Administration. M.B.A. University of Washington.

Desiree Pacheco (2009) Ph.D.
Assistant Professor of Business Administration. Ph.D. 2009 University of Colorado.

Lihong Qian (2011) Ph.D.
Assistant Professor of Business Administration. Ph.D. 2011 University of Illinois, Urbana Champaign.

Neil Ramiller (1999) Ph.D.
Professor of Business Administration. Ph.D. 1996 University of California, Los Angeles.

Shung Jae Shin (2011) Ph.D.
Associate Professor of Business Administration. Ph.D. 2003 Texas A&M.

Lauren Simon (2011) Ph.D.
Assistant Professor of Business Administration. Ph. D. 2011 University of Florida.

Peter Tashman (2011) Ph.D.
Assistant Professor of Business Administration. Ph.D. 2011 George Washington University.

Pamela Tierney (1992) Ph.D.
Associate Dean for Faculty and Research; Ames Professor in Management of Innovation and Technology; Professor of Business Administration. Ph.D. 1992 University of Cincinnati.

Erica Wagner (2009) Ph.D.
Associate Dean of Undergraduate Programs; Roger Ahlbrandt Professor in Management; Associate Professor of Business Administration. Ph.D. 2002 London School of Economics.

Ellen L. West (1982) Ph.D.
Associate Professor of Business Administration. Ph.D. 1981 Oregon State University.
Emeriti Faculty

Steven N. Brenner (1971) D.B.A.
Professor Emeritus of Business Administration. D.B.A. 1972 Harvard Business School.

Lewis N. Goslin (1968) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1964 University of Washington.

William A. Manning (1969) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1970 University of Oregon.

Earl A. Molander (1975) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1972 University of California, Berkeley.

Roger L. Moseley (1967) Ph.D.
Professor Emeritus of Business Administration. Ph.D. 1966 University of Washington.

Alan R. Raedels (1980) Ph.D.
Professor Emeritus of Business
Administration. Ph.D. 1977 Purdue
University.

Grover W. Rodich (1966) Ph.D.
Professor Emeritus of Business
Administration. Ph.D. 1973 University of
Oregon.

Mary S. Taylor (1989) Ph.D.
Professor Emerita of Business
Administration. Ph.D. 1989 University of
Washington.

Marketing
Faculty

Therese (TC) Dale (2007) M.B.A.
Sr. Instructor I of Business Administration.
M.B.A. 2003 Portland State University.

Thomas R. Gillpatrick (1982) Ph.D.
Juan Young Professor in Marketing & Food
Management; Professor of Business
Administration. Ph.D. 1985 University of
Oregon.

Doug Lowell (2013) M.A.
Instructor of Business Administration. M.A.
2013 University of Hartford

Charla Mathwick (1998) Ph.D.
Associate Professor of Business
Administration. Ph.D. 1997 Georgia Institute
of Technology.

Fred Miao (2015) Ph.D.
Assistant Professor of Business
Administration. Ph.D. 2007 University of
Missouri-Columbia.

Charles Nobles (2005) M.M.
Senior Instructor I of Business
Administration. M.M. 2000 Northwestern
Kellogg School of Management.

Maureen O'Connor (2003) M.S.
Director, Advertising Program; Senior
Instructor I of Business Administration. M.S.
1983 University of Oregon.

Courtney Szocs (2015) Ph.D.
Assistant Professor of Business
Administration. Ph.D. 2015 University of
South Florida.

L. P. Douglas Tseng (1988) Ph.D.
Professor of Business Administration. Ph.D.
1988 University of Texas, Arlington.
Emeriti Faculty

Edward L. Grubb (1966) Ph.D.

Professor Emeritus of Business
Administration. Ph.D. 1965 University of
Washington.

Robert R. Harmon (1979) Ph.D.
Professor Emeritus of Business
Administration. Ph.D. 1979 Arizona State
University

Joanne M. Klebba (1985) Ph.D.
Professor Emerita of Business
Administration. Ph.D. 1978 University of
Minnesota.

Alan J. Resnik (1976) Ph.D.
Professor Emeritus of Business
Administration. Ph.D. 1974 Arizona State
University.

Bruce L. Stern (1975) Ph.D.
Professor Emeritus of Business
Administration. Ph.D. 1974 Arizona State
University.

Jack L. Taylor Jr. (1962) M.B.A.
Associate Professor Emeritus of Business
Administration. M.B.A. 1965 University of
Portland.

Real Estate
Faculty

Gerard C.S. Mildner (1991) Ph.D.
Associate Professor of Real Estate. Ph.D.
1991 New York University.

Supply and Logistics Management
Faculty

Steven Carnovale (2014) Ph.D.
Assistant Professor of Business
Administration. Ph.D. 2014 Rutgers
University.

David Gerbing (1987) Ph.D.
Professor of Business Administration. Ph.D.
1979 Michigan State University.

Madeleine Pullman (2005) Ph.D.
Willamette Industries Professor in SLM;
Associate Professor of Operations
Management. Ph.D. 1997 University of Utah.

David Raffo (1995) Ph.D.
Professor of Business Administration. Ph.D.
1995 Carnegie Mellon University.

Daniel Wong (2013) M.A.
Academic Director, SLM Undergraduate
Program. M.A. 1997 Oregon Graduate
Institute.

Emeriti Faculty

Leland Buddress (1990) Ph.D.
Associate Professor Emeritus of Business
Administration. Ph.D. 1995 Michigan State
University.

*Center for Executive and Professional
Education*

Kristen Pedersen (2009) Ph.D.
Director. Ph.D. 2008 Bournemouth
University, England.

Graduate School of Education

Randy Hitz (2006) Ph.D.
Dean, Graduate School of Education. Ph.D.
1980 Indiana State University, Terre Haute.

Micki M. Caskey (1998) Ph.D.
Associate Dean for Academic Affairs,
Graduate School of Education; Professor of
Education. Ph.D. 1997 University of South
Florida.

Faculty

Lisa R. Aasheim (2005) Ph.D.
Associate Professor of Education. Ph.D. 2007
Oregon State University.

Jan Abramovitz (2013) Ph.D.
Assistant Professor of Education. Ph.D. 2009
Oregon State University.

Jean Aguilar-Valdez (2014) Ph.D.
Assistant Professor of Education. Ph.D.
2013 University of North Carolina at
Greensboro.

Tina Anctil (2008) Ph.D.
Associate Professor of Education. Ph.D. 2003
University of Wisconsin-Madison.

Susan Bert (1995) M.S.
Senior Instructor. M.S. 1991 University of
Oregon.

Becky Boesch (2010) Ed.D.
Assistant Professor of Education. Ed.D. 2008
Portland State University.

Christopher J. Borgmeier (2003) Ph.D.
Associate Professor of Education. Ph.D. 2003
University of Oregon.

Anita Bright (2011) Ph.D.
Assistant Professor of Education. Ph.D. 2009
George Mason University.

- Julie Esparza Brown (2007) Ed.D.
Associate Professor of Education. Ed.D.
2007 Portland State University.
- Patrick Burk (2009) Ph.D.
Associate Professor of Education. Ph.D. 1978
University of Chicago.
- Heather Burns (2009) Ed.D.
Assistant Professor. Ed.D. 2009 Portland
State University.
- Susan Carlile (2010) M.A.
Assistant Professor of Education. M.A. 1984
University of Oregon.
- Christine Chaille (1991) Ph.D.
Professor of Education. Ph.D. 1977
University of California, Los Angeles.
- Barbara (Lynn) Coupland (2009) M.Ed.
Instructor. M.Ed. 1980 Gonzaga University.
- Christine Cress (1999) Ph.D.
Professor of Education. Ph.D. 1999
University of California, Los Angeles.
- Esperanza De La Vega (2010) Ph.D.
Assistant Professor of Education. Ph.D. 2005
University of California, Berkeley.
- Randall De Pry (2011) Ph.D.
Professor of Education. Ph.D. 1997
University of Oregon.
- Ramin Farahmandpur (2002) Ph.D.
Professor of Education. Ph.D. 2002
University of California, Los Angeles.
- Ann Fullerton (1990) Ph.D.
Professor of Education. Ph.D. 1990
Vanderbilt University.
- Karen Haley (2011) Ed.D.
Associate Professor of Education. Ed.D.
2006 North Carolina State University.
- Susan E. Halverson-Westerberg (1999) Ph.D.
Associate Professor of Education. Ph.D. 1999
College of William & Mary.
- Motoaki Hara (2010) Ph.D.
Assistant Professor of Education. Ph.D. 2010
University of California, Los Angeles.
- Samuel Henry (1992) Ed.D.
Associate Professor of Education. Ed.D.
1978 Columbia University Teachers College.
- Hollie Hix-Small (2014) Ph.D.
Assistant Professor of Education. Ph.D. 2007
University of Oregon.
- Kimberly Jayne (2015) Ph.D.
- Assistant Professor of Education. Ph.D.
University of North Texas.
- Andrew Job (2007) Ed.D.
Assistant Professor of Education. Ed.D. 2004
Portland State University.
- Patrick F. Johnson (2005) Ph.D.
Professor of Education. Ph.D. 1996 New
Mexico State University.
- Tiffany Jones (2007) M.S.
Instructor. M.S. 2006 Portland State
University.
- Sybil Kelley (2011) Ph.D.
Assistant Professor of Education. Ph.D. 2009
Portland State University.
- Joel A. Lane (2013) M.A.
Assistant Professor of Education. M.A. 2009
Oakland University.
- Holly Lawson (2014) Ph.D.
Assistant Professor of Education. Ph.D. 2010
University of Arizona.
- Susan J. Lenski (2004) Ed.D.
Professor of Education. Ed.D. 1992 Northern
Illinois University.
- Sheldon Loman (2010) Ph.D.
Assistant Professor of Education. Ph.D. 2010
University of Oregon.
- Carol L. Mack (1986) Ph.D.
Professor of Education. Ph.D. 1988
University of Illinois.
- Dorothy McElhone (2009) Ph.D.
Assistant Professor of Education. Ph.D. 2009
Stanford University.
- Swapna Mukhopadhyay (2002) Ph.D.
Professor of Education. Ph.D. 1989 Syracuse
University.
- Olivia Murray (2010) Ed.D.
Assistant Professor. Ed.D. 2011 Portland
State University.
- Ronald B. Narode (1990) Ed.D.
Associate Professor of Education. Ed.D.
1989 University of Massachusetts.
- William A. Parnell (2007) Ed.D.
Associate Professor of Education. Ed.D.
2005 Portland State University.
- Deborah Peterson (2011) Ed.D.
Assistant Professor of Education. Ed.D. 2011
Lewis and Clark College.
- Christopher Pinkney (2013) Ph.D.
- Assistant Professor of Education. Ph.D. 2012
University of Oregon.
- Jason P. Ranker (2007) Ph.D.
Associate Professor of Education. Ph.D. 2004
University of Iowa.
- Candyce Reynolds (2008) Ph.D.
Professor of Education. Ph.D. 1985
University of Oregon.
- Nicole Rigelman (2008) Ed.D.
Associate Professor of Education. Ed.D.
2002 Portland State University.
- Barbara Ruben (1999) Ed.D.
Assistant Professor of Education. Ed.D. 2004
Portland State University.
- Amanda K. Sanford (2007) Ph.D.
Associate Professor of Education. Ph.D. 2006
University of Oregon.
- Samuel Sennott (2013) Ph.D.
Assistant Professor of Education. Ph.D. 2013
Pennsylvania State University.
- Donna Shrier (1994) M.A.
Senior Instructor. M.A. 1979 University of
Northern Colorado.
- Susan Sisko (2015) Ph.D.
Instructor. Ph.D. 2015 Oregon State
University.
- Michael J. Smith (2005) Ph.D.
Associate Professor of Education. Ph.D. 2002
University of California, Los Angeles.
- Dannelle D. Stevens (1994) Ph.D.
Professor of Education. Ph.D. 1993 Michigan
State University.
- Wendy Swanson (2008) M.A.
Instructor. M.A. 1981 Portland State
University.
- Yer J. Thao (2002) Ph.D.
Associate Professor of Education. Ph.D. 2002
Claremont Graduate University.
- Gayle Thieman (1999) Ed.D.
Associate Professor of Education. Ed.D.
2000 Portland State University.
- Dilafruz R. Williams (1990) Ph.D.
Professor of Education. Ph.D. 1987 Syracuse
University.
- Howard Yank (2011) M.A.
Instructor. M.A. 1984 San Francisco State
University.
- Maika Yeigh (2014) Ed.D.

Assistant Professor of Education. Ed.D. 2014
Portland State University.

Emeriti Faculty

Janine M. Allen (1995) Ph.D.

Professor Emerita of Education. Ph.D. 1995
University of Oregon.

Joel R. Arick (1984) Ph.D.

Professor Emeritus of Education. Ph.D. 1981
University of Oregon.

Nancy Benson (1981) Ed.D.

Associate Professor Emerita of Education.
Ed.D. 1988 Portland State University.

James O. Bickford (2001) Ed.D.

Professor Emeritus of Education. Ed.D. 1994
Portland State University.

Alma I. Bingham (1955) Ed.D.

Professor Emerita of Education. Ed.D. 1957
Columbia University.

Chester Bowers (1992) Ph.D.

Professor Emeritus of Education. Ph.D. 1962
University of California.

Steve A. Brannan (1966) Ed.D.

Professor Emeritus of Education. Ed.D. 1965
University of Northern Colorado.

Carol Burden (1977) Ed.D.

Associate Professor Emerita of Education.
Ed.D. 1970 University of Illinois.

Thomas D. Capuzzi (1978) Ph.D.

Professor Emeritus of Education. Ph.D. 1968
Florida State University.

Thomas Goodman Chenoweth (1988) Ph.D.

Professor Emeritus of Education. Ph.D. 1984
Stanford University.

David C. Cox (1984) Ph.D.

Associate Professor Emeritus of Education.
Ph.D. 1982 Ohio State University.

Zola T. Dunbar (1968) D.Ed.

Professor Emerita of Education. D.Ed. 1979
University of Oregon.

Colin George Dunkeld (1970) Ph.D.

Professor Emeritus of Education. Ph.D. 1970
University of Illinois.

Phillis Edmundson (1998) Ed.D.

Professor Emerita of Education. Ed.D. 1974
University of Northern Colorado.

Jean P. Edwards (1968) M.S.

Professor Emerita of Education. M.S. 1967
University of Oregon.

Robert B. Everhart (1986) Ph.D.

Professor Emeritus of Education. Ph.D. 1972
University of Oregon.

Ruth A. Falco (1986) Ph.D.

Associate Emerita Professor of Education.
Ph.D. 1983 University of Oregon.

Michael A. Fiasca (1961) Ph.D.

Professor Emeritus of Education. Ph.D. 1966
Oregon State University.

William D. Greenfield (1987) Ph.D.

Professor Emeritus of Education. Ph.D. 1973
University of New Mexico.

Loyde Hales (1978) Ed.D.

Professor Emeritus of Education. Ed.D. 1964
University of Kansas.

Ulrich H. Hardt (1974) Ph.D.

Professor Emeritus of Education. Ph.D. 1974
University of Oregon.

Stephen L. Isaacson (1995) Ph.D.

Professor Emeritus of Education. Ph.D. 1985
Arizona State University.

Joseph S. Kaplan (1978) Ed.D.

Professor Emeritus of Education. Ed.D. 1972
University of Oregon.

Eric A. Kimmel (1978) Ph.D.

Professor Emeritus of Education. Ph.D. 1973
University of Illinois.

Mary Kinnick (1981) Ph.D.

Professor Emerita of Education. Ph.D. 1975
University of Colorado, Boulder.

David A. Krug (1972) Ph.D.

Professor Emeritus of Education. Ph.D. 1972
University of Washington.

John D. Lind (1971) Ed.D.

Professor Emeritus of Education. Ed.D. 1970
University of Montana.

Cheryl L. Livneh (1987) Ed.D.

Professor Emerita of Education. Ed.D. 1986
Boston University.

Hanoch Livneh (1988) Ph.D.

Professor Emeritus of Education. Ph.D. 1976
University of Wisconsin, Madison.

David H. Martinez (1975) D.Ed.

Associate Professor Emeritus of Education.
D.Ed. 1973 University of Oregon.

Leslie J. Munson (1998) Ph.D.

Professor Emerita of Education. Ph.D. 1996
Vanderbilt University.

Gary R. Nave (1988) Ph.D.

Associate Professor Emeritus of Education.
Ph.D. 1987 University of Oregon.

Karen J. Noordhoff (1994) Ph.D.

Professor Emerita of Education. Ph.D. 1993
Michigan State University.

Sorca M. O'Connor (1990) Ph.D.

Associate Professor Emerita of Education.
Ph.D. 1986 Stanford University.

Kenneth D. Peterson (1987) Ph.D.

Professor Emeritus of Education. Ph.D. 1976
University of California, Berkeley.

Ronald G. Petrie (1975) Ed.D.

Professor Emeritus of Education. Ed.D. 1970
Oregon State University.

Douglas F. Sherman (1990) Ph.D.

Associate Professor Emeritus of Education.
Ph.D. 1983 University of Oregon.

Richard Sonnen (1978) Ed.D.

Professor Emeritus of Education. Ed.D. 1971
University of Oregon.

Paula J. Stanovich (2003) Ph.D.

Professor Emerita of Education. Ph.D. 1994
University of Toronto.

Joan H. Strouse (1985) Ph.D.

Professor Emeritus of Education. Ph.D. 1985
University of Wisconsin, Madison.

M. Carrol Tama (1984) Ph.D.

Professor Emerita of Education. Ph.D. 1982
Syracuse University.

Maxine L. Thomas (1966) Ed.D.

Associate Professor Emerita of Education.
Ed.D. 1980 University of Oregon.

Helen Gordon Child Development Center

Kim Allen (1998) M.A.

Director, ASPSU Children's Center. M.A.
1974 University of Southern California.

Ellen S. Justice (1991) M.A.

Director, Helen Gordon Child Development
Center. M.A. 1999 Pacific Oaks College.

Will Parnell (1997) Ed.D.

Associate Professor, Curriculum and
Instruction; Pedagogical Liaison to Early
Childhood Programs. Ed.D. 2005 Portland
State University

**Maseeh College of Engineering and
Computer Science**

Renjeng Su (2009) D.Sc.

Dean, Maseeh College of Engineering and Computer Science; Professor of Electrical and Computer Engineering. D.Sc. 1980 Washington University, St. Louis.

James Hook (2004) Ph.D.
Associate Dean, Maseeh College of Engineering and Computer Science; Associate Professor of Computer Science. Ph.D. 1988 Cornell University.

Department of Civil and Environmental Engineering
Faculty

Christopher Berger (1998) Ph.D., P.E.
Senior Research Associate in Civil and Environmental Engineering. Ph.D. 2000 Portland State University.

Kelly Clifton (2010) Ph.D.
Professor of Civil and Environmental Engineering. Ph.D. 2001 University of Texas, Austin.

Peter Dusicka (2004) Ph.D., P.E.
Associate Professor of Civil Engineering. Ph.D. 2004 University of Nevada, Reno.

Miguel A. Figliozzi (2007) Ph.D.
Associate Professor of Civil and Environmental Engineering. Ph.D. 2004 University of Maryland College Park.

William Fish (1998) Ph.D.
Associate Professor of Civil Engineering and Environmental Sciences and Resources. Ph.D. 1984 Massachusetts Institute of Technology.

David A. Jay (2005) Ph.D.
Professor of Civil and Environmental Engineering. Ph.D. 1987 University of Washington.

Gwynn R. Johnson (2002) Ph.D.
Associate Professor of Civil and Environmental Engineering. Ph.D. 2001 University of Arizona.

Evan Kristof (2012) J.D., P.E.
Instructor in Civil and Environmental Engineering. J.D. 2010 University of San Diego School of Law.

Wentai Luo (2009) Ph.D.
Senior Research Associate in Civil and Environmental Engineering. Ph.D. 1996 Oregon Graduate Institute of Science and Engineering.

Chris Monsere (2004) Ph.D., P.E.

Chair and Associate Professor in Civil and Environmental Engineering. Ph.D. 2001 Iowa State University.

Christopher Mooers (2009) Ph.D.
Research Professor of Civil and Environmental Engineering. Ph.D. 1969 Oregon State University.

Hamid Moradkhani (2004) Ph.D., P.E.
Associate Professor of Civil and Environmental Engineering. Ph.D. 2004 University of California, Irvine.

James Pankow (2009) Ph.D.
Professor of Civil and Environmental Engineering. Ph.D. 1979 California Institute of Technology.

Franz N. Rad (1971) Ph.D., P.E.
Professor of Civil Engineering. Ph.D. 1973 University of Texas, Austin.

Thomas Schumacher (2015) Ph.D., P.E.
Assistant Professor of Civil Engineering. Ph.D. 2010 Oregon State University

Trevor D. Smith (1983) Ph.D., P.E.
Professor of Civil Engineering. Ph.D. 1983 Texas A&M University.

Tom Szymoniak (2011) M.S., P.E.
Instructor in Civil and Environmental Engineering. M.S. 1986 Oregon State University.

Stefan Talke (2011) Ph.D.
Assistant Professor in Civil and Environmental Engineering. Ph.D. 2005 University of California, Berkeley.

Kristin Tufte (2005) Ph.D.
Research Assistant Professor in Civil and Environmental Engineering and Computer Science. Ph.D. 2005 University of Wisconsin-Madison

Scott A. Wells (1987) Ph.D., P.E.
Professor of Civil and Environmental Engineering. Ph.D. 1990 Cornell University.

Edward D. Zaron (2006) Ph.D.
Research Assistant Professor in Civil and Environmental Engineering. Ph.D. 1995 Oregon State University.
Emeriti Faculty

H. Chik M. Erzurumlu (1962) Ph.D., P.E.
Dean Emeritus, Maseeh College of Engineering and Computer Science; Professor Emeritus of Civil Engineering. Ph.D. 1970 University of Texas, Austin.

B. Kent Lall (1977) Ph.D., P.E.

Professor Emeritus of Civil Engineering. Ph.D. 1969 University of Birmingham (England).

Department of Computer Science
Faculty

Sergio Antoy (1990) Ph.D.
Professor of Computer Science. Ph.D. 1987 University of Maryland.

Andrew Black (2004) Ph.D.
Professor of Computer Science. Ph.D. 1984 University of Oxford.

Nirupama Bulusu (2004) Ph.D.
Associate Professor of Computer Science. Ph.D. 2002 University of California, Los Angeles.

Laszlo Csanky (1983) Ph.D.
Professor of Computer Science. Ph.D. 1974 University of California, Berkeley.

Lois Delcambre (2004) Ph.D.
Professor of Computer Science. Ph.D. 1982 University of Louisiana at Lafayette.

Karla Steinbrugge Fant (1990) M.A.
Senior Instructor in Computer Science. M.A. 2000 Portland State University.

Wu-chang Feng (2004) Ph.D.
Professor of Computer Science. Ph.D. 1999 University of Michigan.

Wu-chi Feng (2004) Ph.D.
Professor of Computer Science. Ph.D. 1996 University of Michigan.

Warren Harrison (1988) Ph.D.
Chair, Department of Computer Science; Professor of Computer Science. Ph.D. 1985 Oregon State University.

James Hook (2004) Ph.D.
Associate Professor of Computer Science. Ph.D. 1988 Cornell University.

Mark Jones (2005) Ph.D.
Professor of Computer Science. Ph.D. 1992 University of Oxford.

Karen Karavanic (2000) Ph.D.
Associate Professor of Computer Science. Ph.D. 2000 University of Wisconsin, Madison.

Jingke Li (1990) Ph.D.
Associate Professor of Computer Science. Ph.D. 1990 Yale University.

Feng Liu (2010) Ph.D.

Assistant Professor of Computer Science.
Ph.D. 2010 University of Wisconsin,
Madison.

David Maier (2004) Ph.D.
Maseeh Professor of Computer Science.
Ph.D. 1978 Princeton University.

Bart Massey (1998) Ph.D.
Associate Professor of Computer Science.
Ph.D. 1999 University of Oregon.

Melanie Mitchell (2004) Ph.D.
Professor of Computer Science. Ph.D. 1990
University of Michigan.

Tim Sheard (2004) Ph.D.
Professor of Computer Science. Ph.D. 1985
University of Massachusetts at Amherst.

Tom Shrimpton (2004) Ph.D.
Associate Professor of Computer Science.
Ph.D. 2004 University of California at Davis.

Suresh Singh (2000) Ph.D.
Professor of Computer Science. Ph.D. 1990
University of Massachusetts.

Andrew Tolmach (1992) Ph.D.
Professor of Computer Science. Ph.D. 1992
Princeton University.

Jonathan Walpole (2004) Ph.D.
Professor of Computer Science. Ph.D. 1987
Lancaster University.

Charles Wright (2012) Ph.D.
Assistant Professor of Computer Science.
Ph.D. 2008 Johns Hopkins University.

Fei Xie (2004) Ph.D.
Associate Professor of Computer Science.
Ph.D. 2004 University of Texas at Austin.

Bryant York (2001) Ph.D.
Professor of Computer Science. Ph.D. 1981
University of Massachusetts.
Emeriti Faculty

Maria Edith Balogh (1964) Ph.D.
Professor Emerita of Computer Science.
Ph.D. 1965 Oregon State University.

Cynthia Brown (1998) Ph.D.
Professor Emerita of Computer Science.
Ph.D. 1977 University of Michigan.

Richard G. Hamlet (1988) Ph.D.
Professor Emeritus of Computer Science.
Ph.D. 1971 University of Washington.

James L. Hein (1976) Ph.D.
Professor Emeritus of Computer Science.
Ph.D. 1973 Northwestern University.

Leonard Shapiro (1987) Ph.D.
Professor Emeritus of Computer Science.
Ph.D. 1969 Yale University.

*Department of Electrical and Computer
Engineering*
Faculty

John Acken (2015) Ph.D.
Adjunct Research Associate Professor of
Electrical and Computer Engineering. Ph.D.
1988 Stanford University

Robert Bass, III (2011) Ph.D.
Associate Professor of Electrical and
Computer Engineering. Ph.D. 2004
University of Virginia.

Jonathan Bird (2015) Ph.D.
Associate Professor of Electrical and
Computer Engineering. Ph.D. 2007
University of Wisconsin, Madison.

Richard Campbell (2012) Ph.D.
Associate Professor of Electrical and
Computer Engineering. Ph.D. 1984
University of Washington, Seattle.

Malgorzata Chrzanoska-Jeske (1989) Ph.D.
Professor of Electrical and Computer
Engineering. Ph.D. 1988 Auburn University.

W. Robert Daasch (1986) Ph.D.
Professor of Electrical and Computer
Engineering. Ph.D. 1982 University of
Washington.

Donald Duncan (2010) Ph.D.
Research Professor of Electrical and
Computer Engineering. Ph.D. 1977 Ohio
State University.

Mark Faust (2004) MSEE
Assistant Professor of Electrical and
Computer Engineering. M.S.E.E. 1981
Carnegie-Mellon University.

Garrison Greenwood (2000) Ph.D.
Associate Professor of Electrical and
Computer Engineering. Ph.D. 1992
University of Washington.

Douglas V. Hall (1990) Ph.D.
Associate Professor of Electrical and
Computer Engineering; Emeritus. Ph.D. 1995
Portland State University.

Melinda Holtzman (2005) Ph.D.
Senior Instructor of Electrical and Computer
Engineering. Ph.D. 2002 University of
Nevada, Reno.

Yih-Chyun Jenq (1990) Ph.D.

Professor of Electrical and Computer
Engineering. Ph.D. 1976 Princeton
University.

Roy Kravitz (2012) M.S.
Westside Program Director for Electrical and
Computer Engineering. M.S. 1977 University
of Illinois, Urbana.

Fu Li (1990) Ph.D., P.E.
Professor of Electrical and Computer
Engineering. Ph.D. 1990 University of Rhode
Island.

Herb Mayer (2014) Ph.D.
Instructor of Electrical and Computer
Engineering. Ph.D. 1996 Technical
University of Berlin, Germany.

James McNames (1999) Ph.D.
Chair, Department of Electrical and
Computer Engineering; Professor of
Electrical and Computer Engineering. Ph.D.
1999 Stanford University.

James E. Morris (2001) Ph.D.
Professor of Electrical and Computer
Engineering. Ph.D. 1971 University of
Saskatchewan, Canada.

Branimir Pejcinovic (1992) Ph.D.
Professor of Electrical and Computer
Engineering. Ph.D. 1990 University of
Massachusetts.

Marek A. Perkowski (1983) Ph.D.
Professor of Electrical and Computer
Engineering. Ph.D. 1980 Technical
University of Warsaw (Poland).

Daniel Rouseff (2012) Ph.D.
Research Professor of Electrical and
Computer Engineering. Ph.D. 1989
University of Washington, Seattle.

Tom Schubert (2014) Ph.D.
Instructor of Electrical and Computer
Engineering. Ph.D. 1992 University of
California, Davis.

Glenn Shirley (2009) Ph.D.
Research Professor of Electrical and
Computer Engineering. Ph.D. 1973 Arizona
State University.

Martin Siderius (2008) Ph.D.
Associate Professor of Electrical and
Computer Engineering. Ph.D. 1996
University of Washington.

Xiaoyu Song (1998) Ph.D.

Professor of Electrical and Computer Engineering. Ph.D. 1991 University of Pisa (Italy).

Renjeng Su (2009) D.Sc.
Dean, Maseeh College of Engineering and Computer Science; Professor of Electrical and Computer Engineering. D.Sc. 1980 Washington University, St. Louis.

Ivan Sutherland (2009) Ph.D.
Visiting Scientist. Ph.D. 1963 Massachusetts Institute of Technology.

Christof Teuscher (2008) Ph.D.
Associate Professor of Electrical & Computer Engineering Ph.D. 2004 Swiss Federal Institute of Technology, Switzerland.

Richard P. E. Tymerski (1988) Ph.D.
Associate Professor of Electrical and Computer Engineering. Ph.D. 1988 Virginia Polytechnic Institute and State University.

Eric Wan (2012) Ph.D.
Research Associate Professor of Electrical and Computer Engineering. Ph.D. 1994 Stanford University.

Lisa M. Zurk (2004) Ph.D.
Professor of Electrical and Computer Engineering. Ph.D. 1995 University of Washington.
Emeriti Faculty

Lee W. Casperson (1983) Ph.D.
Professor Emeritus of Electrical and Computer Engineering. Ph.D. 1971 California Institute of Technology.

George G. Lendaris (1970) Ph.D.
Professor of Systems Science. Professor of Electrical and Computer Engineering. Ph.D. 1961 University of California, Berkeley.

Jack C. Riley (1962) M.S., P.E.
Associate Professor Emeritus of Electrical and Computer Engineering. M.S. 1950 Oregon State University; Post Graduate 1951 Harvard University.

Rolf Schaumann (1988) Ph.D.
Professor Emeritus of Electrical and Computer Engineering. Ph.D. 1970 University of Minnesota.

Department of Engineering and Technology Management
Faculty

Timothy R. Anderson (1995) Ph.D.
Chair, Department of Engineering and Technology Management; Associate

Professor of Engineering and Technology Management. Ph.D. 1995 Georgia Institute of Technology.

Tugrul Daim (1997) Ph.D.
Professor of Engineering and Technology Management. Ph.D. 1997 Portland State University.

Antonie Jetter (2005) Ph.D.
Associate Professor of Engineering and Technology Management. Ph.D. 2004 Aachen University.

Dundar F. Kocaoglu (1987) Ph.D., P.E.
Professor of Engineering and Technology Management and Civil Engineering. Ph.D. 1976 University of Pittsburgh.

Kenny Phan (2013) Ph.D.
Assistant Professor of Engineering and Technology Management. Ph.D. 2013 Portland State University.

Charles W. Weber (2002) Ph.D.
Associate Professor of Engineering and Technology Management. Ph.D. 2003 Massachusetts Institute of Technology.

Department of Mechanical and Materials Engineering
Faculty

Raul Cal (2009) Ph.D.
Associate Professor of Mechanical Engineering. Ph.D. 2006 Rensselaer Polytechnic Institute.

Faryar Etesami (1984) Ph.D., P.E.
Associate Professor of Mechanical Engineering. Ph.D. 1983 University of Wisconsin.

Huafen Hu (2010) Ph.D.
Assistant Professor of Mechanical Engineering. Ph.D. 2009 Georgia Institute of Technology.

Jun Jiao (1999) Ph.D.
Professor of Mechanical Engineering. Ph.D. 1997 University of Arizona.

Lemmy Meekisho (1999) Ph.D.
Associate Professor of Mechanical Engineering. Ph.D. 1988 Carleton University, Ottawa, Canada.

Nathalie Neve (2014) Ph.D.
Assistant Professor of Mechanical Engineering. Ph.D. 2010 Portland State University.

Gerald W. Recktenwald (1989) Ph.D.

Chair, Department of Mechanical and Materials Engineering; Associate Professor of Mechanical Engineering. Ph.D. 1989 University of Minnesota.

Mostafa Saber (2015) Ph.D.
Research Assistant Professor of Mechanical Engineering. Ph.D. 2013 North Carolina State University.

David Sailor (2002) Ph.D.
Professor of Mechanical Engineering. Ph.D. 1993 University of California, Berkeley.

Graig A. Spolek (1980) Ph.D., P.E.
Professor of Mechanical Engineering. Ph.D. 1980 Washington State University.

Evan Thomas (2010) Ph.D.
Assistant Professor of Mechanical Engineering. Ph.D. 2009 University of Colorado, Boulder.

Derek Tretheway (2004) Ph.D.
Associate Professor of Mechanical Engineering. Ph.D. 2000 University of California, Santa Barbara.

David A. Turcic (1992) Ph.D.
Associate Professor of Mechanical Engineering. Ph.D. 1982 Pennsylvania State University.

Mark Weislogel (2001) Ph.D.
Professor of Mechanical Engineering. Ph.D. 1996 Northwestern University.

Chien Wern (1995) Ph.D.
Associate Professor of Mechanical Engineering. Ph.D. 1995 University of Washington.

William Wood (1998) Ph.D.
Professor of Mechanical Engineering. Ph.D. 1973 University of California, Berkeley.

Sung Yi (2001) Ph.D.
Professor of Mechanical Engineering. Ph.D. 1992 University of Illinois, Urbana-Champaign.

Hormoz Zareh (1987) Ph.D.
Associate Professor of Mechanical Engineering. Ph.D. 1986 University of Texas, Arlington.
Emeriti Faculty

Nan-Teh Hsu (1958) Ph.D.
Professor Emeritus of Mechanical Engineering. Ph.D. 1956 California Institute of Technology.

David A. Janssen (1956) B.S.

Associate Professor Emeritus of Mechanical Engineering. B.S. 1950 Oregon State University.

Herman J. Migliore (1977) D.Eng., P.E. Associate Dean Emeritus, Professor Emeritus of Mechanical Engineering. D.Eng. 1975 University of Detroit.

Frank P. Terraglio (1966) Ph.D. Professor Emeritus of Mechanical Engineering. Ph.D. 1964 Rutgers University.

C. William Savery (1980) Ph.D., P.E. Professor of Mechanical Engineering. Ph.D. 1969 University of Wisconsin.

Graig A. Spolek (1980) Ph.D. Professor Emeritus of Mechanical Engineering. Ph.D. 1980 Washington State University.

George A. Tsongas (1971) Ph.D., P.E. Professor of Mechanical Engineering. Ph.D. 1969 Stanford University. Associated Faculty

William Eisenhower (2011) Masters Adjunct Instructor of Mechanical and Materials Engineering. MEng Systems Engineering. 2003 Portland State University

George Totten (2004) Ph.D. Adjunct Associate Professor of Mechanical and Materials Engineering. Ph.D. New York University

College of Liberal Arts and Sciences

Karen Marrongelle (2001) Ph.D. Dean, College of Liberal Arts and Sciences; Professor of Mathematics and Statistics. Ph.D. 2001 University of New Hampshire.

Veronica Dujon (1995) Ph.D. Associate Dean, College of Liberal Arts and Sciences; Professor of Sociology. Ph.D. 1995 University of Wisconsin, Madison.

Drake C. Mitchell (2008) Ph.D. Associate Dean, College of Liberal Arts and Sciences; Professor of Physics. Ph.D. 1987 University of Oregon.

Jennifer Chambers (1998) M.A. Assistant Dean of Finance and Administration, College of Liberal Arts and Sciences. M.A. 1998 Northeastern University.

Robert Mercer (1990) M.A.

Assistant Dean, College of Liberal Arts and Sciences. M.A. 1986 Portland State University.

Patrick Regan (2014) B.S. Senior Director of Development. B.S. 1983 University of Portland.

Benjamin Alberts (2010) M.S. Academic Adviser. M.S. 2010 Portland State University.

Scott Broussard (2010). M.S. Psychology Department Adviser, M.S. 2010 San Francisco State University

Karen DeVoll (2005) M.A. Academic Adviser. M.A. 1998 Antioch University.

Martha Dyson (2010) Ph.D. Academic Adviser. Ph.D. 2009 Drew University.

Joan Jagodnik (1999) Ph.D. Health Sciences Adviser, Ph.D. 2011 Oregon State University.

Paloma Harrison (2011) M.S. Academic Adviser. M.S. 2011 Portland State University.

Sally Hudson (2005) B.A. Director, CLAS High School Programs. B.A. 1975 Portland State University.

Anthony M. Lewis (2010) Ph.D. Academic Adviser. Ph.D. 2001 University of Illinois at Urbana-Champaign.

Laura Marsh (1998) M.S.

Coordinator, Allied Health Advising M.S. 2014 Portland State University.

Jon Rousseau (2010) M.A. Academic Adviser. M.A. 2000 Portland State University.

Melissa Yates (2011) Ph.D. Health Sciences Adviser. Ph.D. 2007 University of Illinois Urbana-Champaign.

Department of Anthropology Faculty

Shelby L. Anderson (2011) Ph.D. Assistant Professor of Anthropology. Ph.D. 2011 University of Washington.

Virginia L. Butler (1994) Ph.D. Professor of Anthropology. Ph.D. 1990 University of Washington.

Sharon A. Carstens (1987) Ph.D.

Professor of Anthropology and International Studies. Ph.D. 1980 Cornell University.

Michele R. Gamburd (1995) Ph.D. Chair, Department of Anthropology; Professor of Anthropology. Ph.D. 1995 University of Michigan.

Charles H. Klein (2012) Ph.D. Assistant Professor of Anthropology. Ph.D. 1996 University of Michigan.

Jeremy Spoon (2009) Ph.D. Associate Professor of Anthropology. Ph.D. 2008 University of Hawaii.

Sarah Sterling (2005) Ph.D. Assistant Professor of Anthropology. Ph.D. 2004 University of Washington.

Natalie Vasey (2002) Ph.D. Professor of Anthropology. Ph.D. 1997 Washington University.

Douglas Wilson (2004) Ph.D. Adjunct Associate Professor of Anthropology. Ph.D. 1991 University of Arizona. Emeriti Faculty

Kenneth M. Ames (1984) Ph.D. Professor Emeritus of Anthropology. Ph.D. 1976 Washington State University.

Marc R. Feldesman (1971) Ph.D. Chair Emeritus, Department of Anthropology; Professor Emeritus of Anthropology. Ph.D. 1974 University of Oregon.

Jacob Fried (1965) Ph.D. Professor Emeritus of Anthropology. Ph.D. 1952 Yale University. Associated Faculty

Robert Boyd (2000) Ph.D. Research Affiliate. Ph.D. 1984 University of Washington.

Douglas Deur (2008) Ph.D. Research Associate Professor of Anthropology. Ph.D. 2000 Louisiana State University.

Michael Etnier (2014) Ph.D. Senior Research Associate. Ph.D. 2002 University of Washington.

Rachel Lahoff (2013) M.A. Research Assistant. M.A. 2013 Portland State University.

Cameron McPherson Smith (2004) Ph.D.

Adjunct Assistant Professor. Ph.D. 2004
Simon Fraser University.

Department of Applied Linguistics
Faculty

Nike Arnold (2002) Ph.D.
Associate Professor of Applied Linguistics.
Ph.D. 2002 University of Texas at Austin.

Kimberley A. Brown (1989) Ph.D.
Professor of Applied Linguistics and
International Studies. Ph.D. 1988 University
of Minnesota.

Jill Castek (2011) Ph.D.
Research Assistant Professor, LLTR. Ph.D.
2008 University of Connecticut.

G. Tucker Childs (1996) Ph.D.
Chair and Professor of Applied Linguistics.
Ph.D. 1988 University of California.

Susan M. Conrad (2001) Ph.D.
Professor of Applied Linguistics. Ph.D. 1996
Northern Arizona University.

Alissa Hartig (2014), Ph.D.
Assistant Professor of Applied Linguistics,
Ph.D. 2014 The Pennsylvania State
University.

Kathryn Harris (1994) Ph.D.
Assistant Professor of Applied Linguistics.
Ph.D. 1995 Northwestern University.

John Hellermann (2003) Ph.D.
Associate Professor of Applied Linguistics.
Ph.D. 2002 University of Wisconsin.

Lynn Santelmann (1998) Ph.D.
Associate Professor of Applied Linguistics.
Ph.D. 1995 Cornell University.

Tanya Sydorenko (2011) Ph.D.
Assistant Professor of Applied Linguistics.
Ph.D. 2011 Michigan State University.

Keith Walters (2006) Ph.D.
Professor of Applied Linguistics. Ph.D. 1989
University of Texas at Austin.
Emeriti Faculty

Jeanette S. DeCarrico (1977) Ph.D.
Professor Emerita of Applied Linguistics.
Ph.D. 1980 University of Washington.

Thomas G. Dieterich (1979) Ph.D.
Professor Emeritus of Applied Linguistics.
Ph.D. 1974 Yale University.

Brian K. Lynch (2001) Ph.D.

Professor Emeritus of Applied Linguistics.
Ph.D. 1987 University of California, Los
Angeles.

Beatrice Oshika (1989) Ph.D.
Professor Emerita of Applied Linguistics.
Ph.D. 1973 University of Michigan.

Stephen Reder (1995) Ph.D.
University Professor Emeritus. Ph.D. 1977
Rockefeller University.

Marjorie Terdal (1977) Ph.D.
Professor Emerita of Applied Linguistics.
Ph.D. 1985 University of Oregon.

Department of Biology
Faculty

Daniel J. Ballhorn (2011) Ph.D.
Assistant Professor of Biology. Ph.D. 2006
University of Hamburg.

Michael S. Bartlett (2002) Ph.D.
Associate Professor of Biology. Ph.D. 1997
University of Wisconsin, Madison.

Kim H. Brown (2012) Ph.D.
Assistant Professor of Biology. Ph.D. 2004
Washington State University.

Bradley A. Buckley (2006) Ph.D.
Associate Professor of Biology. Ph.D. 2003
Arizona State University.

Justin Courcelle (2005) Ph.D.
Professor of Biology. Ph.D. 1999 Stanford
University.

Mitchell B. Cruzan (2002) Ph.D.
Professor of Biology. Ph.D. 1989 State
University of New York at Stony Brook.

Deborah A. Duffield (1978) Ph.D.
Professor of Biology. Ph.D. 1976 University
of California, Los Angeles.

Sarah Eppley (2005) Ph.D.
Associate Professor of Biology. Ph.D. 2000
University of California, Davis.

Suzanne Estes (2005) Ph.D.
Associate Professor of Biology. Ph.D. 2002
University of Oregon.

Keith D. Garlid (2002) M.D., dr.techn.
Professor of Biology. (Retired) M.D. 1961
The Johns Hopkins University School of
Medicine. Dr. technicae norwegiensis 1987
Norwegian Institute of Technology.

Deborah I. Lutterschmidt (2010) Ph.D.
Assistant Professor of Biology. Ph.D. 2006
Oregon State University.

Susan Masta (2002) Ph.D.
Associate Professor of Biology. Ph.D. 1999
University of Arizona.

Michael T. Murphy (2000) Ph.D.
Professor of Biology. Ph.D. University of
Kansas.

Jason Podrabsky (2003) Ph.D.
Professor of Biology. Ph.D. 1999 University
of Colorado, Boulder.

Rahul Raghavan (2012) Ph.D.
Assistant Professor of Biology. Ph. D. 2008
University of Montana.

Anna-Louis Reysenbach (1999) Ph.D.
Professor of Biology. Ph.D. 1987 University
of Cape Town.

Todd Rosenstiel (2006) Ph.D.
Associate Professor of Biology. Ph.D. 2004
University of Colorado.

Luis A. Ruedas (2001) Ph.D.
Associate Professor of Biology. Ph.D. 1992
Texas A&M University.

Jeffrey D. Singer (2011) Ph.D.
Associate Professor of Biology. Ph.D. 1995
University of Utah School of Medicine.

Kenneth M. Stedman (2001) Ph.D.
Professor of Biology. Ph.D. 1996 University
of California, Berkeley.

Randy D. Zelick (1986) Ph.D.
Professor of Biology. Ph.D. 1984 University
of California, Los Angeles.
Emeriti Faculty

Clyde L. Calvin (1968) Ph.D.
Professor Emeritus of Biology. Ph.D. 1966
University of California, Davis.

Larry I. Crawshaw (1976) Ph.D.
Professor Emeritus of Biology. Ph.D. 1970
University of California, Santa Barbara;.

Stanley S. Hillman (1977) Ph.D.
Professor Emeritus of Biology. Ph.D. 1976
University of California, Los Angeles.

Malcom S. Lea (1965) Ph.D.
Professor Emeritus of Biology. Ph.D. 1964
Northwestern University.

Byron E. Lippert (1960) Ph.D.
Professor Emeritus of Biology. Ph.D. 1966
Indiana University.

Robert L. Millette (1984) Ph.D.
Professor Emeritus of Biology. Ph.D. 1964
California Institute of Technology.

Lester J. Newman (1964) Ph.D.
Professor Emeritus of Biology. Ph.D. 1963
Washington University.

Leonard Simpson (1968) Ph.D.
Professor Emeritus of Biology. Ph.D. 1968
University of California, Berkeley.

Mary L. Taylor (1962) Ph.D.
Professor Emerita of Biology. Ph.D. 1959
University of Illinois.

W. Herman Taylor Jr. (1961) Ph.D.
Professor Emeritus of Biology. Ph.D. 1959
University of Illinois.

Robert Owen Tinnin (1969) Ph.D.
Professor Emeritus of Biology. Ph.D. 1969
University of California, Santa Barbara.

Department of Black Studies
Faculty

Darrell Millner (1974) Ed.D.
Interim Chair, Department of Black Studies;
Professor Emeritus of Black Studies. Ed.D.
1975 University of Oregon.

Pedro Ferbel-Azcarate (1998) Ph.D.
Assistant Professor of Black Studies. Ph.D.
University of Minnesota 1995.

Derrais Carter (2013) Ph.D.
Assistant Professor of Black Studies. Ph.D.
University of Iowa 2013.

Roberta Hunte (2012) Ph. D.
Assistant Professor of Black Studies, Conflict
Resolution, Women, Gender and Sexuality
Studies. Ph.D. 2012 University of Manitoba,
Winnipeg.

Ethan Johnson (2005) Ph.D.
Associate Professor of Black Studies. Ph.D.
2005 University of California, Berkeley.

Joseph Smith-Buani (2011) Ph. D.
Instructor of Black Studies. Ph. D. 2001
Portland State University.
Emeriti Faculty

Kofi Agorsah (1992) Ph.D.
Professor of Black Studies and International
Studies. Ph.D. 1983 University of California,
Los Angeles.

Darrell Millner (1974) Ed.D.
Professor Emeritus of Black Studies. Ed.D.
1975 University of Oregon.

Department of Chemistry
Faculty

Dirk Iwata-Reuyl (1994) Ph.D.

Chair, Department of Chemistry; Professor of
Chemistry. Ph.D. 1992 Johns Hopkins
University.

Dean B. Atkinson (1997) Ph.D.
Associate Professor of Chemistry. Ph.D.
1995 University of Arizona.

Jack Barbera (2015) Ph.D.
Associate Professor of Chemistry. Ph.D.
2007 University of Colorado, Boulder.

Albert S. Benight (2003) Ph.D.
Professor of Chemistry and Physics. Ph.D.
1983 Georgia Institute of Technology.

Tami Lasseter Clare (2008) Ph.D.
Assistant Professor of Chemistry. Ph.D. 2005
University of Wisconsin.

Andrea Goforth (2008) Ph.D.
Associate Professor of Chemistry. Ph.D.
2005 University of South Carolina.

Erik Johansson (2010) Ph.D.
Assistant Professor of Chemistry. Ph.D. 2007
University of California, Los Angeles.

Niles E. Lehman (2001) Ph.D.
Professor of Chemistry. Ph.D. 1990
University of California, Los Angeles.

Theresa McCormick (2013) Ph.D.
Assistant Professor of Chemistry. Ph.D. 2008
Queen's University, Kingston, Ontario,
Canada.

James Pankow (2008) Ph.D.
Professor of Chemistry and Civil and
Environmental Engineering. Ph.D. 1979
California Institute of Technology.

John Perona (2011) Ph.D.
Professor of Chemistry. Ph.D. 1989 Yale
University.

David H. Peyton (1987) Ph.D.
Professor of Chemistry. Ph.D. 1983
University of California, Santa Barbara.

Steve Reichow (2014) Ph.D.
Assistant Professor of Chemistry. Ph.D. 2006
University of Washington.

Kevin A. Reynolds (2005) Ph.D.
Professor of Chemistry. Ph.D. 1987
University of South Hampton, England.

Gwendolyn P. Shusterman (1989) Ph.D.
Professor of Chemistry. Ph.D. 1983
University of California, Berkeley.

Reuben H. Simoyi (2002) Ph.D.

Professor of Chemistry. Ph.D. 1982 Brandeis
University.

Robert M. Strongin (2007) Ph.D.
Professor of Chemistry. Ph.D. 1995
University of Pennsylvania.

David Stuart (2012) Ph.D.
Assistant Professor of Chemistry. Ph.D. 2010
University of Ottawa, Canada.

Mark Woods (2008) Ph.D.
Associate Professor of Chemistry. Ph.D.
1998 University of Durham, England.
Emeriti Faculty

Bruce W. Brown (1963) Ph.D.
Professor Emeritus of Chemistry. Ph.D. 1961
University of Washington.

Gary L. Gard (1966) Ph.D.
Professor Emeritus of Chemistry. Ph.D. 1964
University of Washington.

Thomas M. Hard (1977) Ph.D.
Fellow in Chemistry. Ph.D. 1965 University
of Wisconsin.

Gordon L. Kilgour (1968) Ph.D.
Professor Emeritus of Chemistry. Ph.D. 1956
University of Washington.

Raymond P. Lutz (1968) Ph.D.
Professor Emeritus of Chemistry. Ph.D. 1962
California Institute of Technology.

David W. McClure (1966) Ph.D.
Professor Emeritus of Chemistry. Ph.D. 1963
University of Washington.

Robert J. O'Brien (1973) Ph.D.
Professor Emeritus of Chemistry. Ph.D. 1970
University of Florida.

Carl C. Wamser (1983) Ph.D.
Professor Emeritus of Chemistry. Ph.D. 1970
California Institute of Technology.
Associated Faculty

Shankar B. Ranavavare (1996) Ph.D.
Research Associate Professor of Chemistry.
Ph.D. 1983 University of Missouri, St. Louis.

Chicano/Latino Studies
Faculty

Roberto M. De Anda (2002) Ph.D.
Director, Chicano Latino Studies and
Associate Professor of Chicano Latino
Studies. Ph.D. 1991 University of Arizona.

Elena Aviles (2014) Ph.D.

Assistant Professor of Chicano Latino Studies. Ph.D. 2014 University of New Mexico.

Department of Communication
Faculty

Cynthia Lou Coleman (2001) Ph.D.
Professor of Communication. Ph.D. 1994
University of Wisconsin, Madison.

Kenneth Bagley (2005) Ph.D.
Assistant Professor. Ph.D. 1991 University of
Oregon.

Lauren Frank (2011) Ph.D.
Assistant Professor of Communication. Ph.D.
2011 University of Southern California.

J. David Kenamer (2004) Ph.D.
Assistant Professor of Communication. Ph.D.
1982 University of Wisconsin-Madison.

L. David Ritchie (1990) Ph.D.
Professor of Communication. Ph.D. 1987
Stanford University.

Jeffrey Robinson (2009) Ph.D.
Professor of Communication. Ph.D. 1999
University of California, Los Angeles.

Tanya Romaniuk (2013) Ph.D.
Assistant Professor of Communication. Ph.D.
2013 York University (Canada).

Lee Shaker (2011) Ph.D.
Assistant Professor of Communication. Ph.D.
2008 University of Pennsylvania.

Erin Spottswood (2014) Ph.D.
Assistant Professor of Communication. Ph.D.
2014 Cornell University.

Gisele Tierney (1991) M.S.
Senior Instructor in Communication. M.S.
1986 Portland State University.
Emeriti Faculty

Leslie T. Good (1989) Ph.D.
Associate Professor Emerita of
Communication. Ph.D. 1986 Stanford
University.

Theodore G. Grove (1970) Ph.D.
Professor Emeritus of Communication. Ph.D.
1965 Northwestern University.

Stephen A. Kosokoff (1966) Ph.D.
Professor Emeritus of Communication. Ph.D.
1966 University of Oregon.

Susan B. Poulsen (1990) Ph.D.

Associate Professor Emerita of
Communication. Ph.D. 1988 University of
Washington.

Larry Steward (1967) Ph.D.
Associate Professor Emeritus of
Communication. Ph.D. 1968 Pennsylvania
State University.

Conflict Resolution Program
Faculty

Harry Anastasiou (2002) Ph.D.
Professor, Conflict Resolution Graduate
Program. Ph.D. 2001 The Union Institute and
University.

Amanda Byron (2002) Ed.D.
Assistant Professor, Conflict Resolution
Graduate Program. Ed.D. 2011 Portland State
University.

Rachel Cunliffe (2008) Ph.D.
Assistant Professor, Conflict Resolution
Graduate Program. Ph.D. 2001 University of
Arizona.

Robert J. Gould (1992) Ph.D.
Director, Conflict Resolution Graduate
Program; Assistant Professor. Ph.D. 1993
University of Oregon.

Tom Hastings (2002) Ed.D.
Assistant Professor, Conflict Resolution
Graduate Program. Ed.D. 2011 Portland State
University.

Vandy Kanyako (2013) Ph.D.
Assistant Professor, Conflict Resolution
Graduate Program. Ph.D. 2010 George
Mason University.

Barbara Tint (1999) Ph.D.
Professor, Conflict Resolution Graduate
Program. Ph.D. 2003 University of
Melbourne.

Mary Zinkin (1998) Ph.D.
Assistant Professor, Conflict Resolution
Graduate Program. Ph.D. 1987 Portland State
University.

Department of Economics
Faculty

Randall A. Bluffstone (2003) Ph.D.
Professor of Economics. Ph.D. 1993 Boston
University.

Jamein Cunningham (2014) Ph.D.
Assistant Professor of Economics. Ph.D.
2014 University of Michigan.

John Luke Gallup (2009) Ph.D.
Associate Professor of Economics. Ph.D.
1994 University of California, Berkeley.

John B. Hall (1985) Ph.D.
Professor of Economics. Ph.D. 1984 The
Graduate Faculty, New School for Social
Research.

Hiroyuki Ito (2004) Ph.D.
Professor of Economics. Ph.D. 2004
University of California, Santa Cruz.

Kuan-Pin Lin (1979) Ph.D.
Professor of Economics. Ph.D. 1977 State
University of New York, Stony Brook.

Arnab Mitra (2013) Ph.D.
Assistant Professor of Economics. Ph.D.
2010 University of Arizona.

Thomas Potiowsky (1982) Ph.D.
Chair, Department of Economics; Professor
of Economics. Ph.D. 1981 University of
Colorado.

Cesar Rodriguez (2013) Ph.D.
Assistant Professor of Economics. Ph.D.
2009 University of Pittsburgh.

Rajiv Sharma (1998) Ph.D.
Associate Professor of Economics. Ph.D.
1998 University of Florida.

Sarah Tinkler (1989) Ph.D.
Professor of Economics. Ph.D. 1989
University of Oregon.

Jacob F. Williams (2014) Ph.D.
Assistant Professor of Economics. Ph.D.
2014 Texas A&M University.

James Woods (2003) Ph.D.
Assistant Professor of Economics. Ph.D.
2003 University of California, Davis.

Rossitza Wooster (2002) Ph.D.
Associate Professor of Economics. Ph.D.
2002 University of Oregon.
Emeriti Faculty

Richard L. Brinkman (1961) Ph.D.
Professor Emeritus of Economics. Ph.D.
1965 Rutgers University.

Giles H. Burgess (1969) Ph.D.
Professor Emeritus of Economics. Ph.D.
1973 University of Oregon.

Nelson B. Crick (1967) Ph.D.
Professor Emeritus of Economics. Ph.D.
1967 University of Colorado.

David E. Ervin (1999) Ph.D.

Professor of Environmental Management;
Professor of Economics: Fellow in the
Institute for Sustainable Solutions. Ph.D.
1974 Oregon State University.

Mary C. King (1992) Ph.D.
Professor Emerita of Economics. Ph.D. 1991
University of California, Berkeley.

Thomas Palm (1967) Ph.D.
Professor Emeritus of Economics. Ph.D.
1967 University of Michigan.

Abdul Qayum (1970) D.Sc.
Professor Emeritus of Economics. D.Sc.
1959 Netherlands School of Economics.

John F. Walker (1966) Ph.D.
Professor Emeritus of Economics. Ph.D.
1972 University of Utah.

Helen L. Youngelson-Neal (1967) Ph.D.
Professor Emerita of Economics. Ph.D. 1966
Columbia University.

Department of English
Faculty

Diana Abu-Jaber (1996) Ph.D.
Professor of English. Ph.D. 1986 State
University of New York, Binghamton.

Katya Amato (1984) M.A.
Senior Instructor in English. M.A. 1982
Portland State University.

John Beer (2011) M.F.A.
Assistant Professor of English. M.F.A. 1996
University of Iowa.

Joel Bettridge (2006) Ph.D.
Professor of English. Ph.D. 2002 State
University of New York, Buffalo.

Will Bohnaker (1991) M.A.
Senior Instructor of English. M.A. 1969
University of Iowa.

Elisabeth A. Ceppi (2000) Ph.D.
Associate Professor of English. Ph.D. 2000
University of Chicago.

Michael Clark (1999) Ph.D., J.D.
Associate Professor of English. Ph.D. 1989
State University of New York, Binghamton;
J.D. 1995 University of Oregon.

Paul Collins (2006) M.A.
Chair, Professor of English. M.Phil. 2014
City University of New York Graduate
Center.

Maria Depriest (1996) Ph.D.

Associate Professor of English/Native
American Studies. Ph.D. 1991 University of
Oregon.

Dan DeWeese (2003) M.A.
Instructor of English, Director of the P.S.U.
Writing Center. M.A. 2003 Portland State
University.

W. Tracy Dillon (1993) Ph.D.
Professor of English. Ph.D. 1988 University
of California, Riverside.

Sarah Ensor (2012) Ph.D.
Assistant Professor of English. Ph.D. 2012
Cornell University.

Joshua Epstein (2014) Ph.D.
Assistant Professor of English, Ph.D. 2008
Vanderbilt University.

Thomas Fisher (2002) Ph.D.
Assistant Professor of English. Ph.D. 2000
State University of New York, Buffalo.

Abbey Gaterud (2010) M.A.
Instructor of English. M.A. 2007 Portland
State University.

Michele Glazer (2003) M.F.A.
Director of Creative Writing, Professor of
English, Writing. M.F.A. 1986 University of
Iowa.

Amy Greenstadt (2001) Ph.D.
Associate Professor of English. Ph.D. 2000
University of California, Berkeley.

Per Henningsgaard (2012) Ph.D.
Director of Publishing; Assistant Professor of
English. Ph.D. 2009 University of Western
Australia.

Maude Hines (2000) Ph.D.
Associate Professor of English. Ph.D. 1998
Duke University.

Alistair Hunt (2009) Ph.D.
Professor of English. Ph.D. 2009 University
of Wisconsin-Madison.

Susan Kirtley (2011) Ph.D.
Director of Writing; Associate Professor of
English. Ph.D. 2002 University of
Massachusetts, Amherst.

Bishupal Limbu (2010) Ph.D.
Assistant Professor of English. Ph.D. 2010
Northwestern University.

Kendall Leon (2013) Ph.D.
Director of Technical and Professional
Writing, Assistant Professor of English,
Ph.D. 2010 Michigan State University.

Sarah Lincoln (2010) Ph.D.
Assistant Professor of English. Ph.D. 2008
Duke University.

Marie Lo (2001) Ph.D.
Associate Professor of English. Ph.D. 2001
University of California, Berkeley.

Charles McLeod (2015) M.F.A.
Assistant Professor of English. MFA 2005
University of Virginia.

Michael McGregor (2001) M.F.A.
Professor of English. M.F.A. 1997 Columbia
University.

Lorraine Mercer (1984) Ph.D.
Associate Professor of English. Ph.D. 1996
University of Oregon.

Hildy Miller (2000) Ph.D.
Professor of English. Ph.D. 1990 University
of Minnesota.

Anoop Mirpuri (2012) Ph.D.
Assistant Professor of English. Ph.D. 2010
University of Washington.

A. B. Paulson (1985) Ph.D.
Associate Professor of English. Ph.D. 1974
State University of New York, Buffalo.

Susan Reese (1991) M.F.A.
Assistant Professor of English. M.F.A. 2006
Pacific University.

Christine M. Rose (1989) Ph.D.
Director of Literary Studies, Professor of
English. Ph.D. 1985 Tufts University.

Jennifer Ruth (1999) Ph.D.
Associate Professor of English. Ph.D. 1999
Brown University.

John V. Smyth (1998) Ph.D.
Professor of English. Ph.D. 1982 University
of Pennsylvania.

Jonathan Walker (2004) Ph.D.
Associate Professor of English. Ph.D.
University of Illinois, Chicago.

Anthony W. Wolk (1965) Ph.D.
Professor of English. Ph.D. 1965 University
of Nebraska.

Helen Zumas (2011) M.F.A.
Assistant Professor of English. M.F.A. 2004
University of Massachusetts, Amherst.
Emeriti Faculty

Thomas C. Buell (1965) Ph.D.
Professor Emeritus of English. Ph.D. 1965
University of Washington.

Marjorie J. Burns (1972) Ph.D.
Professor Emerita of English. Ph.D. 1978
University of California, Berkeley.

Peter Carafiol (1984) Ph.D.
Professor Emeritus of English. Ph.D. 1975
Claremont Graduate School.

Henry Carlile (1967) M.A.
Professor Emeritus of English. M.A. 1967
University of Washington.

Duncan A. Carter (1987) Ph.D.
Professor Emeritus of English. Ph.D. 1974
University of Illinois.

Nathan Cogan (1976) Ph.D.
Professor Emeritus of English and General
Studies. Ph.D. 1971 University of California,
Berkeley.

John R. Cooper (1970) Ph.D.
Professor Emeritus of English. Ph.D. 1962
Yale University.

Georgia R. Crampton (1972) Ph.D.
Professor Emerita of English. Ph.D. 1967
University of Oregon.

Ivan Curcin (1969) D.Phil.
Professor Emeritus of English. D.Phil. 1968
Oxford University (England).

Susan Danielson (1974) Ph.D.
Professor Emerita of English. Ph.D. 1990
University of Oregon.

Thomas Doulis (1972) M.A.
Professor Emeritus of English. M.A. 1963
Stanford University.

Carol J. Fokine (1984) M.A.
Senior Instructor Emerita in English. M.A.
1983 Portland State University.

Gregory F. Goekjian (1970) Ph.D.
Professor Emeritus of English. Ph.D. 1970
University of Pittsburgh.

Barbara Guetti (1993) Ph.D.
Associate Professor Emerita of English.
Ph.D. 1961 Cornell University.

Frederick Harrison (1962) Ph.D.
Associate Professor Emeritus of English.
Ph.D. 1966 University of Washington.

Michael A. Hollister (1966) Ph.D.
Professor Emeritus of English. Ph.D. 1967
Stanford University.

David Arthur Holloway (1969) Ph.D.
Associate Professor Emeritus of English.
Ph.D. 1975 University of Chicago.

Greg Jacob (1994) Ph.D.
Associate Professor Emeritus of English.
Ph.D. 1982 Indiana University of
Pennsylvania.

Jae Num Lee (1967) Ph.D.
Professor Emeritus of English. Ph.D. 1968
University of New Mexico.

Elaine E. Limbaugh (1970) M.A.
Professor of English. M.A. 1969 University
of Nebraska.

Ray P. Mariels (1967) Ph.D.
Professor Emeritus of English. Ph.D. 1967
University of Oregon.

Carl Markgraf (1966) Ph.D.
Professor Emeritus of English. Ph.D. 1970
University of California, Riverside.

Margaret B. Palmer (1959) M.A.
Assistant Professor Emerita of English. M.A.
1960 University of Portland.

Nancy M. Porter (1968) M.A.
Professor Emerita of English. M.A. 1960
Yale University.

Shelley C. Reece (1969) Ph.D.
Professor Emeritus of English. Ph.D. 1967
University of Nebraska.

Mary Seitz (1981) M.A.
Senior Instructor Emerita in English. M.A.
1978 Portland State University.

Primus St. John (1973).
Professor Emeritus of English.

Dennis Stovall (2000).
Assistant Professor Emeritus of English B.A.
1968 University of Oregon.

Christine Thompson (1964) Ph.D.
Professor Emerita of English. Ph.D. 1984
University of Oregon.

Robert C. Tuttle (1955) Ph.D.
Professor Emeritus of English. Ph.D. 1965
University of Washington.

Deeanne W. Westbrook (1971) Ph.D.
Professor Emerita of English. Ph.D. 1978
University of Oregon.

Robert I. Williams (1967) Ph.D.
Associate Professor Emeritus of English.
Ph.D. 1966 University of California,
Berkeley.

*School of the Environment
Faculty*

J. Alan Yeakley (1994) Ph.D.
Director, School of the Environment;
Professor of Environmental Science. Ph.D.
1993 University of Virginia.

*Department of Environmental Science and
Management
Faculty*

Catherine de Rivera (2005) Ph.D.
Associate Professor of Environmental
Science. Ph.D. 1999 University of California,
San Diego.

Marion Dresner (1995) Ph.D.
Associate Professor of Environmental
Science. Ph.D. 1985 University of Michigan.

Patrick Edwards (2000) Ph.D.
Instructor, Ph.D. 2014 Portland State
University.

William Fish (1998) Ph.D.
Associate Professor of Civil Engineering and
Environmental Science. Ph.D. 1984
Massachusetts Institute of Technology.

Linda George (2002) Ph.D.
Professor of Environmental Science. Ph.D.
1991 Portland State University.

Jeffrey Gerwing (2002) Ph.D.
Associate Professor of Environmental
Science. Ph.D. 2001 Pennsylvania State
University.

Elise Granek (2006) Ph.D.
Associate Professor of Environmental
Science. Ph.D. 2006 Oregon State
University.

Amy Larson (2008) Ph.D.
Instructor, Ph.D. 2007. University of
California at Davis & San Diego State
University.

Joseph Maser (1996) Ph.D.
Assistant Professor of Environmental
Science. Ph.D. 1977 University of Indiana.

Jennifer Morse (2013) Ph.D.
Assistant Professor of Environmental
Science. Ph.D. 2010 Duke University.

Jeremy Parra (2012) Ph.D.
Instructor, Ph.D. 2012, Portland State
University.

Max Nielsen-Pincus (2013) Ph.D.
Assistant Professor of Environmental
Science. Ph.D. 2007 University of Idaho.

Yangdong Pan (1996) Ph.D.
Professor of Environmental Science. Ph.D.
1993 Bowling Green State University.

John G. Rueter, Jr. (1979) Ph.D.
Chair; Professor of Environmental Science.
Ph.D. 1979 Massachusetts Institute of
Technology.

Gregory M. Ruiz (2005) Ph.D.
Research Professor, Environmental Science.
Ph.D. 1987 University of California, Berkeley.

Robert Scheller (2009) Ph.D.
Assistant Professor of Environmental
Science. Ph.D. 2004 University of
Wisconsin-Madison.

Angela Strecker (2011) Ph.D.
Assistant Professor of Environmental
Science. Ph.D. 2007 Queen's University.

Mark D. Sytsma (1998) Ph.D.
Professor of Environmental Science. Ph.D.
1992 University of California, Davis.

J. Alan Yeakley (1994) Ph.D.
Professor of Environmental Science. Ph.D.
1993 University of Virginia.
Associated Faculty

Eugene Foster (1996) Ph.D.
Adjunct Assistant Professor Environmental
Science. Ph.D. 1996 Oregon State
University.

Edward O. Guerrant Jr. (2011) Ph.D.
Director of the Rae Selling Berry Seed Bank
and Plant Conservation Program; Research
Assistant Professor. Ph.D. 1984 University of
California at Berkeley.
Emeriti Faculty

David E. Ervin (1999) Ph.D.
Professor of Emeritus Environmental
Management; Ph.D. 1974 Oregon State
University.

Richard R. Petersen (1970) Ph.D.
Professor Emeritus of Environmental
Science. Ph.D. 1970 Duke University.

Roy W. Koch (1982) Ph.D., P.E.
Professor Emeritus of Civil Engineering and
Environmental Science. Ph.D. 1982 Colorado
State University.

Department of Geography
Faculty

David Banis (2004) M.S.
GIS Lab Manager and Instructor. M.S. 2004
Portland State University.

Barbara Brower (1994) Ph.D.
Professor of Geography and International
Studies. Ph.D. 1987 University of California,
Berkeley.

Teresa Bulman (1990) Ph.D.
Professor of Geography. Ph.D. 1990
University of California, Davis.

Heejun Chang (2001) Ph.D.
Chair, Department of Geography
Professor of Geography. Ph.D. 2001
Pennsylvania State University.

Britt Crow-Miller (2014) Ph.D.
Assistant Professor of Geography. Ph.D.
2013, University of California, Los Angeles.

Jiunn-Der (Geoffrey) Duh (2004) Ph.D.
Associate Professor of Geography. Ph.D.
2004 University of Michigan.

Andrés Holz (2013) Ph.D.
Assistant Professor of Geography. Ph.D.
2009, University of Colorado, Boulder.

Martin Lafrenz (2005) Ph.D.
Associate Professor of Geography. Ph.D.
2005 University of Tennessee.

Paul Loikith (2012) Ph.D.
Assistant Professor of Geography, Ph.D.,
2012, Rutgers University, New Brunswick,
New Jersey.

Hunter Shobe (2005) Ph.D.
Assistant Professor of Geography. Ph.D.
2005 University of Oregon.

Martin Swobodzinski (2014) Ph.D.
Assistant Professor of Geography. Ph.D.
2012, San Diego State University and
University of California, Santa Barbara.
Emeriti Faculty

Daniel M. Johnson (1977) Ph.D.
Professor Emeritus of Geography. Ph.D.
1978 Arizona State University.

D. Richard Lycan (1970) Ph.D.
Professor Emeritus of Geography and Urban
Studies and Planning. Ph.D. 1964 University
of Washington.

Joseph Poracsky (1982) Ph.D.
Professor Emeritus of Geography. Ph.D.
1984 University of Kansas.

Larry W. Price (1968) Ph.D.
Professor Emeritus of Geography. Ph.D.
1970 University of Illinois.

Martha A. Works (1985) Ph.D.

Professor Emerita of Geography and
International Studies. Ph.D. 1985 Louisiana
State University.

Department of Geology
Faculty

John Bershaw (2014) Ph.D.
Assistant Professor of Geology, Ph.D. 2011
University of Rochester.

Adam M. Booth (2013) Ph.D.
Assistant Professor of Geology. Ph.D. 2012
University of Oregon.

Kenneth M. Cruikshank (1994) Ph.D.
Associate Professor of Geology. Ph.D. 1991
Purdue University.

Andrew G. Fountain (1998) Ph.D.
Professor of Geology. Ph.D. 1992 University
of Washington.

Richard C. Hugo (2001) Ph.D.
Research Assistant Professor of Geology.
Ph.D. 1999 Washington State University.

David Percy (1998) B.S.
Research Assistant. B.S. 1999 Portland State
University.

R. Benjamin Perkins (2003) Ph.D.
Assistant Professor of Geology. Ph.D. 2000
Portland State University.

Nancy A. Price (2014) Ph.D.
Assistant Professor of Geology. Ph.D. 2012
University of Maine.

Maxwell L. Rudolph (2013) Ph.D.
Assistant Professor of Geology. Ph.D. 2012
University of California, Berkeley.

Alex Ruzicka (2000) Ph.D.
Associate Professor of Geology. Ph.D. 1996
University of Arizona.

Martin J. Streck (1999) Ph.D.
Chair, Professor of Geology. Ph.D. 1994
Oregon State University.

Ashley Streig (2015) Ph.D.
Assistant Professor of Geology. Ph.D. 2014
University of Oregon.
Emeriti Faculty

Scott F. Burns (1990) Ph.D.
Professor Emeritus of Geology. Ph.D. 1980
University of Colorado.

Sherry L. Cady (1998) Ph.D.
Professor Emerita of Geology. Ph.D. 1994
University of California, Berkeley.

Michael L. Cummings (1978) Ph.D.

Professor Emeritus of Geology. Ph.D. 1978, University of Wisconsin.

Paul E. Hammond (1963) Ph.D.

Professor Emeritus of Geology. Ph.D. 1963 University of Washington.

Ansel G. Johnson (1973) Ph.D.

Professor Emeritus of Geology. Ph.D. 1973 Stanford University.

Curt D. Peterson (1989) Ph.D.

Professor Emeritus of Geology. Ph.D. 1983 Oregon State University.

Richard E. Thoms (1964) Ph.D.

Professor Emeritus of Geology. Ph.D. 1965 University of California, Berkeley. Associated Faculty

Matthew Brunengo (2004) Ph.D.

Adjunct Professor of Geology, Ph.D. 2012 Portland State University.

Elizabeth Carter (1993) Ph.D.

Adjunct Research Associate in Geology. Ph.D. 1993 University of Lausanne (Switzerland).

Michael L. Feves (1984) Ph.D.

Adjunct Professor of Geology. Ph.D. 1977 Massachusetts Institute of Technology.

Jonathan Fink (2010) Ph.D.

Adjunct Professor of Geology, Ph.D. 1979 Stanford University.

Frank Granshaw (2004) Ph.D.

Adjunct Professor of Geology, Ph.D. 2011 Portland State University.

Melinda Hutson (2000) Ph.D.

Adjunct Professor of Geology, Ph.D. 1996 University of Arizona.

Jim Jackson (2001) M.S.

Adjunct Professor of Geology. M.S. 1978 Portland State University.

Marc G. Kramer (2010) Ph.D.

Adjunct Research Professor of Geology. Ph.D. 2001 Oregon State University.

Maciej Obryk (2014) Ph.D.

Adjunct Assistant Research Professor of Geology, Ph.D. 2014 University of Illinois at Chicago.

Jim E. O'Conner (1995) Ph.D.

Adjunct Associate Professor of Geology. Ph.D. 1990 University of Arizona.

Carl D. Palmer (2012) Ph.D.

Adjunct Research Professor of Geology.

Ph.D. 1982 University of Waterloo, (Ontario, Canada).

Thomas C. Pierson (1995) Ph.D.

Adjunct Associate Professor of Geology. Ph.D. 1977 University of Washington.

Richard N. Pugh (2004) M.S.T.

Adjunct Research Professor in Geology. M.S.T. 1970 Portland State University.

Michelle Stoklosa (2010) Ph.D.

Adjunct Professor of Geology. Ph.D. 2002 University of Wisconsin-Madison.

Terry L. Tolan (1993) M.S.

Adjunct Research Assistant in Geology. M.S. 1982 Portland State University.

Joseph Walder (1999) Ph.D.

Adjunct Associate Professor of Geology. Ph.D. 1984 Stanford University.

Barry Walker (2014) Ph.D.

Adjunct Professor of Geology. Ph.D. 2011 Oregon State University.

J. Alan Yeakley (1995) Ph.D.

Adjunct Professor of Environmental Science. Ph.D. 1993 University of Virginia.

Department of History

Faculty

George L. Armantrout (2003) Ph.D.

Assistant Professor of History. Ph.D. 1990 University of Michigan.

Katrine Barber (2001) Ph.D.

Associate Professor of History. Ph.D. 1999 Washington State University.

Richard Beyler (1998) Ph.D.

Professor of History. Ph.D. 1994 Harvard University.

Joseph E. Bohling (2014) Ph.D.

Assistant Professor of History. Ph.D. 2012 University of California at Berkeley.

Desmond Cheung (2013) Ph.D.

Assistant Professor of History. Ph.D. 2011 University of British Columbia.

David P. Del Mar (2002) Ph.D.

Associate Professor of History. Ph.D. 1993 University of Oregon.

Tim Alan Garrison (1997) Ph.D., J.D.

Chair and Professor of History. Ph.D. 1997 University of Kentucky; J.D. 1986 University of Georgia.

James P. Grehan (2005) Ph.D.

Professor of History. Ph.D. 1999 University of Texas at Austin.

David A. Horowitz (1968) Ph.D.

Professor of History. Ph.D. 1971 University of Minnesota.

Chia Yin Hsu (2008) Ph.D.

Associate Professor of History. Ph.D. 2006 New York University.

David A. Johnson (1979) Ph.D.

Professor of History. Ph.D. 1977 University of Pennsylvania.

Jennifer K. Kerns Robison (2009) Ph.D.

Assistant Professor of History. Ph.D. 2002 University of Arizona.

Rodney B. Koeneke (1997) Ph.D.

Assistant Professor of History. Ph.D. 1997 Stanford University.

Thomas M. Luckett (1992) Ph.D.

Associate Professor of History. Ph.D. 1992 Princeton University.

Catherine McNeur (2013) Ph.D.

Assistant Professor of History. Ph.D. 2012 Yale University.

John S. Ott (1999) Ph.D.

Professor of History. Ph.D. 1999 Stanford University.

Laura C. Robson (2009) Ph.D.

Associate Professor of History, Ph.D. 2009 Yale University.

Marc S. Rodriguez (2014) Ph.D.

Managing Editor, *Pacific Historical Review*; Associate Professor of History. Ph.D. 2000 Northwestern University.

Kenneth Ruoff (1999) Ph.D.

Professor of History. Ph.D. 1997 Columbia University.

Patricia Schechter (1995) Ph.D.

Professor of History. Ph.D. 1993 Princeton University.

Friedrich Schuler (1990) Ph.D.

Professor of History. Ph.D. 1990 University of Chicago.

Jennifer Tappan (2009) Ph.D.

Assistant Professor of History. Ph.D. 2010 Columbia University.

Brian Turner (2011) Ph.D.

Assistant Professor of History. Ph.D. 2010 University of North Carolina at Chapel Hill.

Emeriti Faculty

Victoria C. Belco (2004) Ph.D.

Associate Professor Emerita of History. Ph.D. 2001 University of California at Berkeley.

Elliot Benowitz (1966) Ph.D.

Associate Professor Emeritus of History. Ph.D. 1966 University of Wisconsin.

Karen Carr (1992) Ph.D.

Associate Professor Emerita of History. Ph.D. 1992 University of Michigan.

Victor C. Dahl (1958) Ph.D.

Professor Emeritus of History. Ph.D. 1959 University of California, Berkeley.

Basil Dmytryshyn (1956) Ph.D.

Professor Emeritus of History. Ph.D. 1955 University of California, Berkeley.

Susan C. Karant-Nunn (1970) Ph.D.

Professor Emerita of History. Ph.D. 1971 Indiana University.

William L. Lang (1994) Ph.D.

Professor Emeritus of History. Ph.D. 1974 University of Delaware.

Charles A. Le Guin (1959) Ph.D.

Professor Emeritus of History. Ph.D. 1956 Emory University.

Caroline Litzberger (1999) Ph.D.

Associate Professor Emerita of History. Ph.D. 1993 University of Cambridge.

Jon E. Mandaville (1965) Ph.D.

Professor Emeritus of History and International Studies. Ph.D. 1969 Princeton University.

Thomas D. Morris (1967) Ph.D.

Professor Emeritus of History. Ph.D. 1969 University of Washington.

Frederick M. Nunn (1965) Ph.D.

Professor Emeritus of History and International Studies. Ph.D. 1963 University of New Mexico.

Michael F. Reardon (1964) Ph.D.

Professor Emeritus of History and Humanities. Ph.D. 1965 Indiana University.

Linda A. Walton (1980) Ph.D.

Professor Emerita of History. Ph.D. 1978 University of Pennsylvania.

Ann Weikel (1967) Ph.D.

Professor Emerita of History. Ph.D. 1966 Yale University.

Charles M. White (1955) Ph.D.

Professor Emeritus of History. Ph.D. 1959 University of Southern California. Associated Faculty

Natan M. Meir (2008) Ph.D.

Assistant Professor. Ph.D. 2004 Columbia University.

Shawn Smallman (1995) Ph.D.

Professor. Ph.D. 1995 Yale University.

Loren R. Spielman (2010) Ph.D.

Assistant Professor. Ph.D. 2010 Jewish Theological Seminary of America.

Indigenous Nations Studies

Faculty

Judy Bluehorse-Skelton (2013) M.A.

Senior Instructor of Indigenous Nations Studies. M.A. 2008 Portland State University.

Grace Dillon (1997) Ph.D.

Professor of Indigenous Nations Studies. Ph.D. 1997 University of California, Riverside.

Cornel Pewewardy (2008) Ed.D.

Director and Professor of Indigenous Nations Studies. Ed.D. 1989 Pennsylvania State University.

Department of International and Global Studies

Faculty

Evguenia Davidova (2002) Ph.D.

Assistant Professor of International and European Studies. Ph.D. 1998 Institute of History, Bulgarian Academy of Sciences.

Stephen Frenkel (2001) Ph.D.

Assistant Professor of International Studies. Ph.D. 1993 Syracuse University.

Priya Kapoor (2014) Ph.D.

Associate Professor of International Studies. Ph.D. 1995 Ohio University.

Tugrul Keskin (2009) Ph.D.

Assistant Professor of International and Middle Eastern Studies. Ph.D. 2009 Virginia Tech University.

Joseph V. Long (1998) Ph.D.

Assistant Professor of International and European Studies. Ph.D. 1997 Stanford University.

Leopoldo Rodriguez (2001) Ph.D.

Associate Professor of International and Latin American Studies. Ph.D. 1999 University of Texas at Austin.

Shawn Smallman (1996) Ph.D.

Chair and Professor of International Studies. Ph.D. 1995 Yale University.

Gerry Sussman (1995) Ph.D.

Professor of Urban Studies and Planning and International Studies. Ph.D. 1983 University of Hawaii.

Birol Yesilada (1998) Ph.D.

Professor of Political Science and International Studies. Ph.D. 1984 University of Michigan. Associated Faculty

E. Kofi Agorsah Ph.D. (Black Studies)

Kimberley A. Brown Ph.D. (Applied Linguistics)

Sharon A. Carstens Ph.D. (Anthropology)

Martha W. Hickey Ph.D. (Russian)

Laurence R. Kominz Ph.D. (Japanese)

Jon E. Mandaville Ph.D. (History)

Judaic Studies

Faculty

Natan M. Meir (2008) Ph.D.

Academic Director, The Harold Schnitzer Family Program in Judaic Studies; The Lorry I. Lokey Chair in Judaic Studies; Associate Professor of Judaic Studies. Ph.D. 2004 Columbia University.

Nina S. Spiegel (2012) Ph.D.

The Rabbi Joshua Stampfer Chair in Israel Studies; Assistant Professor of Judaic Studies. Ph.D. 2001 Stanford University.

Loren R. Spielman (2010) Ph.D.

Assistant Professor of Judaic Studies. Ph.D. 2011 Jewish Theological Seminary of America.

Michael R. Weingrad (2004) Ph.D.

Associate Professor of Judaic Studies. Ph.D. 1999 University of Washington.

Fariborz Maseeh Department of Mathematics and Statistics

Faculty

Mark Blackmore (2014) M.S. (1988) Ph.D.

Instructor of Mathematics and Statistics. M.S. 2009 Portland State University.

Steven A. Bleiler (1988) Ph.D.

- Professor of Mathematics and Statistics. Ph.D. 1981 University of Oregon.
- Steven J. Boyce (2014) Ph.D.
Assistant Professor of Mathematics and Statistics Education. Ph.D. 2014 Virginia Tech.
- John S. Caughman, IV (2000) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1998 University of Wisconsin.
- Branford R. Crain (1978) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1972 Oregon State University.
- Dacian Daescu (2003) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 2001 University of Iowa.
- Ian Dinwoodie (2011) Ph.D.
Assistant Professor of Mathematics and Statistics. Ph.D. 1990 Northwestern University.
- Joseph R. Ediger (1993) M.S.
Senior Instructor in Mathematics and Statistics. M.S. 1994 Portland State University.
- Marek Elzanowski (1988) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1975 Institute of Fundamental Technological Research, Polish Academy of Science (Poland).
- Brittany A. Erickson (2014) Ph.D.
Assistant Professor in Mathematics and Statistics. Ph.D. 2010 University of California, Santa Barbara.
- Andrew Flight (2002) M.S.
Senior Instructor in Mathematics and Statistics. M.S. 1994 Portland State University.
- Robert L. Fountain (1992) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1985 University of New Mexico.
- Derek Garton (2013) Ph.D.
Assistant Professor of Mathematics and Statistics. Ph.D. 2012 University of Wisconsin.
- Sylvia Giroux (2005) M.S.
Senior Instructor in Mathematics and Statistics. M.S. 2006 Portland State University.
- Jay Gopalakrishnan (2011) Ph.D.
Maseeh Distinguished Chair in Mathematical Sciences. Professor of Mathematics and Statistics. Ph.D. 1999 Texas A&M University.
- Bruno Jedynak (2015) Ph.D.
Maseeh Associate Professor of Mathematics and Statistics. Ph.D. 1995 Université Paris XI Orsay (France).
- Bin Jiang (2003) Ph.D.
Associate Professor of Mathematics and Statistics. Ph.D. 1999 University of California, Santa Barbara.
- Jong Sung Kim (1999) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1999 University of Iowa.
- Subhash C. Kochar (2005) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1979 Panjab University.
- Beatriz M. Lafferriere (1993) Ph.D.
Assistant Professor of Mathematics and Statistics. Ph.D. 1987 Rutgers University.
- Gerardo A. Lafferriere (1990) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1986 Rutgers University.
- Sean P. Larsen (2004) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 2004 Arizona State University.
- M. Paul Latiolais (1989) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1984 Tulane University.
- Karen A. Marrongelle (2001) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 2001 University of New Hampshire.
- Mau Nam Nguyen (2012) Ph.D.
Assistant Professor of Mathematics and Statistics. Ph.D. 2007 Wayne State University.
- Jennifer Noll (2007) Ph.D.
Assistant Professor of Mathematics and Statistics. Ph.D. 2007 Portland State University.
- Joyce O'Halloran (1987) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1979 University of Washington.
- Jeffrey Oval (2013) Ph.D.
Maseeh Associate Professor of Mathematics and Statistics. Ph.D. 2004 University of California, San Diego.
- Jeanette R. Palmiter (1990) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1986 Ohio State University.
- Serge Preston (1989) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1978 Steklov Institute of Mathematics (USSR).
- Mara Tableman (1990) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1984 Pennsylvania State University.
- Eva Thanheiser (2008) Ph.D.
Associate Professor of Mathematics and Statistics. Ph.D. 2005 University of California, San Diego.
- Panayot Vassilevski (2014) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1984 St. Kliment Ohridski, University of Sofia (Bulgaria).
- J.J.P. Veerman (2001) Ph.D.
Professor of Mathematics and Statistics. Ph.D. 1986 Cornell University.
- Rachel Webb (2003) M.S.
Senior Instructor in Mathematics and Statistics. M.S. 2003 Portland State University.
Emeriti Faculty
- Charles B. Balogh (1964) Ph.D.
Professor Emeritus of Mathematical Sciences. Ph.D. 1965 Oregon State University.
- F. Rudolf Beyl (1983) Ph.D.
Professor Emeritus of Mathematics and Statistics. Ph.D. 1972 Cornell University.
- Gavin Bjork (1966) Ph.D.
Professor Emeritus of Mathematical Sciences. Ph.D. 1966 Washington State University.
- John B. Butler (1961) Ph.D.
Professor Emeritus of Mathematical Sciences. Ph.D. 1954 University of California, Berkeley.
- Frank S. Cater (1965) Ph.D.
Professor Emeritus of Mathematical Sciences. Ph.D. 1960 University of Southern California.
- Richard Byrd Crittenden (1969) Ph.D.
Professor Emeritus of Mathematical Sciences and Systems Science. Ph.D. 1964 University of Oregon.
- Mary Lou Daily (1963) Ph.D.
Associate Professor Emerita of Mathematical Sciences. Ph.D. 1972 Oregon State University.
- Eugene A. Enneking (1968) Ph.D.

Professor Emeritus of Mathematics and Statistics. Ph.D. 1966 Washington State University.

Marjorie A. Enneking (1968) Ph.D.
Professor Emerita of Mathematics and Statistics. Ph.D. 1966 Washington State University.

John M. Erdman (1966) B.A.
Associate Professor Emeritus of Mathematics and Statistics. B.A. 1957 Lehigh University.

Phillip J. Gold (1964) Ph.D.
Professor Emeritus of Mathematical Sciences. Ph.D. 1961 New York University.

Bruce A. Jensen (1966) Ph.D.
Professor Emeritus of Mathematical Sciences. Ph.D. 1966 University of Nebraska.

Leonard T. Nelson (1977) Ph.D.
Professor Emeritus of Mathematical Sciences and Education. Ph.D. 1968 University of Michigan.

Michael Shaughnessy (1993) Ph.D.
Professor Emeritus of Mathematics and Statistics. Ph.D. 1976 Michigan State University.

Leonard G. Swanson (1964) Ph.D.
Professor Emeritus of Mathematical Sciences. Ph.D. 1970 Oregon State University.

Vincent C. Williams (1965) Ph.D.
Professor Emeritus of Mathematical Sciences. Ph.D. 1961 Harvard University. Associated Faculty

Farag Abdel-Salam Attia (1990) Ph.D.
Adjunct Professor of Mathematics and Statistics. Ph.D. 1969 Oregon State University.

Dongseok Choi (2002) Ph.D.
Adjunct Associate Professor of Mathematics and Statistics. Ph.D. 1999 University of Chicago.

Linda Foreman (2002)
Adjunct Senior Instructor of Mathematics and Statistics.

Rochelle Fu (2006) Ph.D.
Adjunct Assistant Professor of Mathematics and Statistics. Ph.D. 2003 University of Connecticut.

John Gorman (2005) Ph.D.
Adjunct Assistant Professor of Mathematics and Statistics. Ph.D. 1994 Brown University.

Douglas A. Hanes (2006) Ph.D.
Adjunct Assistant Professor of Mathematics and Statistics. Ph.D. 1999 University of Michigan.

Robert Knighten (2003) Ph.D.
Adjunct Professor of Mathematics and Statistics. Ph.D. Massachusetts Institute of Technology.

Jodi Lapidus (2001) Ph.D.
Adjunct Associate Professor. Professor of Mathematics and Statistics. Ph.D. 1998 University of New Mexico.

Gin McCollum (2010) Ph.D.
Adjunct Research Professor of Mathematics and Statistics. Ph.D. 1975 Yeshiva University.

Motomi Mori (2002) Ph.D.
Adjunct Professor of Mathematics and Statistics. Ph.D. 1989 University of Iowa.

Joel Shapiro (2006) Ph.D.
Adjunct Professor of Mathematics and Statistics. Ph.D. 1970 University of Michigan.

Nancy T. Waller (1979) Ph.D.
Adjunct Assistant Professor of Mathematical Sciences. Ph.D. 1976 Michigan State University.

Department of Philosophy
Faculty

Brad Berman (2012) Ph.D.
Assistant Professor of Philosophy. Ph.D. 2011 University of Pennsylvania.

Peter Boghossian (2010) Ed.D.
Assistant Professor of Philosophy. Ed.D. 2004 Portland State University.

Angela Coventry (2004) Ph.D.
Associate Professor of Philosophy. Ph.D. 2004 University of North Carolina, Chapel Hill.

Brian Elliott (2011) Ph.D.
Instructor of Philosophy. Ph.D. 1998 Albert-Ludwigs-Universität Freiburg.

Robert C. Gillis (1993) M.A.
Senior Instructor of Philosophy. M.A. 1990 University of California, San Diego.

R. Kevin Hill (2004) Ph.D.
Associate Professor of Philosophy. Ph.D. 1992 University of Illinois, Urbana-Champaign.

Avram Hiller (2008), Ph.D.

Associate Professor of Philosophy. Ph.D. 2005 Duke University.

Aleksandar Jokic (1999) Ph.D.
Professor of Philosophy. Ph.D. 1991 University of California, Santa Barbara.

Alexander Sager (2009) Ph.D.
Assistant Professor of Philosophy. Ph.D. 2009 University of Calgary.

Tom Seppalainen (1999) Ph.D.
Associate Professor of Philosophy. Ph.D. 1999 University of Pittsburgh.

Albert R. Spencer (2009) Ph.D.
Senior Instructor of Philosophy. Ph.D. 2007 Baylor University.

David Weber (2001) M.A.
Senior Instructor of Philosophy. M.A. 1990 University of North Carolina, Chapel Hill. Emeriti Faculty

Larry S. Bowlden (1968) Ph.D.
Professor Emeritus of Philosophy. Ph.D. 1968 University of Washington.

Department of Physics
Faculty

Erik Bodegom (1984) Ph.D.
Professor of Physics. Ph.D. 1982 Catholic University of America.

Jonathan J. Abramson (1979) Ph.D.
Professor of Physics. Ph.D. 1975 University of Rochester.

Albert S. Benight (2003) Ph.D.
Professor of Chemistry and Physics. Ph.D. 1983 Georgia Institute of Technology.

John L. Freeouf (2005) Ph.D.
Chair, Department of Physics; Professor of Physics. Ph.D. 1973 University of Chicago.

Jun Jiao (1999) Ph.D.
Professor of Physics and Materials Science. Ph.D. 1997 University of Arizona.

Mohammad Aslam Khan Khalil (1995) Ph.D.
Professor of Physics. Ph.D. 1976 University of Texas; Ph.D. 1979 Oregon Graduate Center, Beaverton.

Rolf Koenenkamp (2002) Ph.D.
Gertrude F. Rempfer Professor of Physics. Ph.D. 1984 Tulane; Habilitation 1998 Freie Universität Berlin.

Andrés H. LaRosa (1999) Ph.D.
Associate Professor of Physics. Ph.D. 1996 North Carolina State University.

- Pui-Tak Leung (1988) Ph.D.
Professor of Physics. Ph.D. 1982 State University of New York, Buffalo.
- Drake C. Mitchell (2008) Ph.D.
Professor of Physics. Ph.D. 1987 University of Oregon.
- Peter Møeck (2002) Ph.D.
Associate Professor of Physics. Diploma 1983 Leipzig University; Dr.rer.nat. 1991 Humboldt University of Berlin.
- Andrew Rice (2007) Ph.D.
Associate Professor of Physics. Ph.D. 2002 University of California, Irvine.
- Erik J. Sánchez (2002) Ph.D.
Director, Applied Physics Ph.D. Program; Associate Professor of Physics. Ph.D. 1999 Portland State University.
- Rajendra Solanki (2005) Ph.D.
Professor of Physics. Ph.D. 1982 Colorado State University.
- Jack C. Straton (1994) Ph.D.
Associate Professor of Physics. Ph.D. 1986 University of Oregon.
- Ralf Widenhorn (2005) Ph.D.
Associate Professor of Physics. Ph.D. 2005 Portland State University.
Emeriti Faculty
- Carl Bachhuber (1963) Ph.D.
Associate Professor Emeritus of Physics. Ph.D. 1965 University of Washington.
- Lee W. Casperson (1983) Ph.D.
Professor Emeritus of Electrical Engineering and Physics. Ph.D. 1971 California Institute of Technology.
- John Carruthers (2004) Ph.D.
Professor Emeritus of Physics. 1967 University of Toronto (Canada).
- John Dash (1966) Ph.D.
Professor Emeritus of Physics. Ph.D. 1966 Pennsylvania State University.
- Donald G. Howard (1965) Ph.D.
Professor Emeritus of Physics. Ph.D. 1964 University of California, Berkeley.
- David I. Paul (1987) Ph.D.
Professor Emeritus of Physics. Ph.D. 1956 University of California, Los Angeles.
- Arnold D. Pickar (1963) Ph.D.
Professor Emeritus of Physics. Ph.D. 1962 University of Maryland.
- Pieter K. Rol (1992) Ph.D.
Professor Emeritus of Physics. Ph.D. 1960 University of Amsterdam (The Netherlands).
- Cecil E. Sanford (1955) M.S.
Associate Professor Emeritus of Physics. M.S. 1949 University of Oregon.
- Jack S. Semura (1973) Ph.D.
Professor Emeritus of Physics. Ph.D. 1972 University of Wisconsin.
- Raymond Sommerfeldt (1966) Ph.D.
Professor Emeritus of Physics. Ph.D. 1964 Oregon State University.
- Pavel K. Smejtek (1972) Ph.D.
Professor Emeritus of Physics. Ph.D. 1965 Czechoslovak Academy of Sciences (Czechoslovakia).
- Department of Psychology*
Faculty
- Todd Bodner (2002) Ph.D.
Associate Professor of Psychology. Ph.D. 2000 Harvard University.
- Sherwin Davidson (1989) Ph.D.
Chair, Department of Psychology; Professor of Psychology. Ph.D. 1978 University of Utah.
- Charlotte Fritz (2009) Ph.D.
Assistant Professor of Psychology. Ph.D. 2005 Technical University of Braunschweig.
- Leslie B. Hammer (1990) Ph.D.
Professor of Psychology. Ph.D. 1991 Bowling Green State University.
- Keith James (2005) Ph.D.
Professor of Psychology. Ph.D. 1986 Colorado State University.
- Kimberly B. Kahn (2011) Ph.D.
Assistant Professor of Psychology. Ph.D. 2010 University of California, Los Angeles.
- Keith L. Kaufman (1998) Ph.D.
Professor of Psychology. Ph.D. 1985 University of South Florida.
- Thomas A. Kindermann (1989) Ph.D.
Professor of Psychology. Ph.D. 1986 Free University of Berlin (Germany).
- Eric S. Mankowski (1998) Ph.D.
Professor of Psychology. Ph.D. 1997 University of Illinois at Urbana-Champaign.
- Andrew J. Mashburn (2011) Ph.D.
Professor of Psychology. Ph.D. 2004 Georgia State University.
- Cynthia Mohr (2001) Ph.D.
Associate Professor of Psychology. Ph.D. 1999 University of Connecticut.
- C. Kerth O'Brien (1987) Ph.D.
Associate Professor of Psychology. Ph.D. 1987 University of Michigan.
- Rob Roeser (2008) Ph.D.
Professor of Psychology. Ph.D. 1996 University of Michigan.
- Ellen A. Skinner (1992) Ph.D.
Professor of Psychology. Ph.D. 1981 Pennsylvania State University.
- Joel S. Steele (2011) Ph.D.
Assistant Professor of Psychology. Ph.D. 2011 University of California, Davis.
- Donald M. Truxillo (1994) Ph.D.
Professor of Psychology. Ph.D. 1987 Louisiana State University.
- Liu-Qin Yang (2009) Ph.D.
Assistant Professor of Psychology. Ph.D. 2009 University of South Florida.
Emeriti Faculty
- Barry F. Anderson (1968) Ph.D.
Professor Emeritus of Psychology. Ph.D. 1963 Johns Hopkins University.
- Gerald Guthrie (1970) Ph.D.
Professor Emeritus of Psychology. Ph.D. 1966 Clark University.
- Janice K. Haaken (1979) Ph.D.
Professor Emerita of Psychology. Ph.D. 1979 Wright Institute, Los Angeles.
- Roger D. Jennings (1969) Ph.D.
Professor Emeritus of Psychology. Ph.D. 1963 University of Colorado.
- Robert E. Jones Jr. (1964) Ph.D.
Professor Emeritus of Psychology. Ph.D. 1963 University of Utah.
- Chadwick Karr (1960) Ph.D.
Professor Emeritus of Psychology. Ph.D. 1958 University of Washington.
- Hugo M. Maynard du Coudray (1967) Ph.D.
Professor Emeritus of Psychology and Urban Studies. Ph.D. 1966 University of Oregon.
- Dalton Miller-Jones (1992) Ph.D.
Professor Emeritus of Psychology. Ph.D. 1973 Cornell University.
- James A. Paulson (1970) Ph.D.
Professor Emeritus of Psychology. Ph.D. 1973 Stanford University.

Cord B. Sengstake (1964) Ph.D.
Professor Emeritus of Psychology. Ph.D.
1963 University of Oregon.

Cathleen L. Smith (1975) Ph.D.
Professor Emerita of Psychology. Ph.D. 1976
University of Utah.

Ronald E. Smith (1955) Ph.D.
Professor Emeritus of Psychology. Ph.D.
1954 University of Utah.

Frank Wesley (1958) D.Phil.
Professor Emeritus of Psychology. D.Phil.
1964 Kulturminister (Germany).

David F. Wrench (1966) Ph.D.
Professor Emeritus of Psychology. Ph.D.
1961 University of North Carolina.

Center for Science Education
Faculty

William G. Becker (1983) Ph.D.
Director, Center for Science Education.
Professor of Science Education. Ph.D. 1981
Boston University.

Carol Biskupic-Knight (2010) M.Ed.
Professional Development Coordinator.
M.Ed. 1987 Boston University.

Michael J. Flower (1992) Ph.D.
Associate Professor of University Honors
and Science Education. Ph.D. 1969
University of Wisconsin.

Linda Mantel (2005) Ph.D.
Director of the Intel, Northwest Science
Expo System. Ph.D. 1969 University of
Illinois.

Melissa Potter (2011) D.Ed.
Instructor, Center for Science Education.
D.Ed. 2009 University of Oregon.

Emily Saxton (2008) M.S.T.
Associate Professor of Research. M.S.T.
2008 Portland State University.

Cary Sneider (2007) Ph.D.
Associate Professor of Research. Ph.D. 1982
University of California, Berkeley.

Lorna A. Tran (2009) Ed.D.
Director, Louis Stokes Alliance for Minority
Participation. Ed.D. 1997 Portland State
University.

Stephanie Wagner (2011) M.A.
M.S.T. Program Coordinator. M.A. 1970
University of California, Los Angeles.

Department of Sociology
Faculty

Matthew Carlson (2003) Ph.D.
Professor of Sociology. Ph.D. 1996
University of Texas.

Veronica Dujon (1995) Ph.D.
Associate Dean of College of Liberal Arts
and Sciences; Professor of Sociology. Ph.D.
1995 University of Wisconsin.

Margaret C. Everett (1996) Ph.D.
Dean of Graduate Studies; Professor of
Sociology. Ph.D. 1995 Yale University.

Ginny Garcia Alexander (2012) Ph.D.
Assistant Professor of Sociology. Ph.D. 2008
Texas A&M University.

Daniel Jaffee (2013) Ph.D.
Assistant Professor of Sociology. Ph.D. 2006
University of Wisconsin-Madison.

Maura Kelly (2010) Ph.D.
Assistant Professor of Sociology. Ph.D. 2010
University of Connecticut.

Robert C. Liebman (1987) Ph.D.
Professor of Sociology and Urban Studies.
Ph.D. 1981 University of Michigan.

Amy Lubitow (2011) Ph.D.
Assistant Professor of Sociology. Ph.D. 2011
Northeastern University.

José Antonio Padin (1995) Ph.D.
Associate Professor of Sociology. Ph.D. 1998
University of Wisconsin.

Emily F. Shafer (2013) Ph.D.
Assistant Professor of Sociology. Ph.D. 2010
Stanford University.

Dara Shifrer (2015) Ph.D.
Assistant Professor of Sociology. Ph.D. 2012
University of Texas, Austin.

Alex Stepick (2008) Ph.D.
Professor of Sociology. Ph.D. 1974
University of California at Irvine.

Melissa Thompson (2003) Ph.D.
Associate Professor of Sociology. Ph.D. 2003
University of Minnesota.

Lindsey Wilkinson (2008) Ph.D.
Associate Professor of University Studies
and Sociology. Ph.D. 2008 University of
Texas, Austin.

Hyeyoung Woo (2009) Ph.D.
Associate Professor of Sociology. Ph.D. 2008
University of Texas, Austin.

Emeriti Faculty

Martha Balshem (1997) Ph.D.
Professor Emerita of Sociology. Ph.D. 1985
Indiana University.

Johanna Brenner (1981) Ph.D.
Professor Emerita of Sociology and
Women's Studies. Ph.D. 1979 University of
California, Los Angeles.

Charles D. Bolton (1964) Ph.D.
Professor Emeritus of Sociology and Urban
Studies and Planning. Ph.D. 1959 University
of Chicago.

Leonard D. Cain, Jr. (1969) Ph.D.
Professor Emeritus of Sociology and Urban
Studies and Planning. Ph.D. 1955 University
of Texas, Austin.

Peter J. Collier (1997) Ph.D.
Professor of Sociology. Ph.D. 1997 Portland
State University.

Nanette J. Davis (1975) Ph.D.
Professor Emerita of Sociology. Ph.D. 1973
Michigan State University.

Grant M. Farr (1975) Ph.D.
Professor Emeritus of Sociology. Ph.D. 1974
University of Washington.

Kathryn A. Farr (1977) Ph.D.
Professor Emerita of Sociology. Ph.D. 1979
Portland State University.

Nona Y. Glazer (1964) Ph.D.
Professor Emerita of Sociology. Ph.D. 1965
Cornell University.

Lee J. Haggerty (1971) Ph.D.
Professor Emeritus of Sociology. Ph.D. 1972
University of Wisconsin.

Jan Hajda (1967) Ph.D.
Professor Emeritus of Sociology. Ph.D. 1963
University of Chicago.

Marvin A. Kaiser (1993) Ph.D.
Professor Emeritus of Sociology. Ph.D. 1979
University of Nebraska.

Robert William Shotola (1970) Ph.D.
Professor Emeritus of Sociology. Ph.D. 1969
University of Wisconsin.

Michael A. Toth (1990) Ph.D.
Professor Emeritus of Sociology. Ph.D. 1973
University of Utah.

Department of Speech and Hearing Sciences
Faculty

Shelly S. Chabon (2008) Ph.D.

Vice Provost for Academic Personnel and Leadership Development; Professor of Speech and Hearing Sciences. Ph.D. 1980 University of Pittsburgh.

Jeff Conn (2013) Ph.D.
Clinical Assistant Professor of Speech and Hearing Sciences. Ph.D. 2005 University of Pennsylvania.

Amy Costanza-Smith (2012) Ph.D.
Clinical Assistant Professor of Speech and Hearing Sciences. Ph.D. 2004 University of Washington.

Amy L. Donaldson (2008) Ph.D.
Assistant Professor of Speech and Hearing Sciences. Ph.D. 2005 University of Washington.

Gerasimos Fergadiotis (2012) Ph.D.
Assistant Professor of Speech and Hearing Sciences. Ph.D. 2011 Arizona State University.

Christina Gildersleeve-Neumann (2002) Ph.D.
Chair and Associate Professor of Speech and Hearing Sciences. Ph.D. 2001 University of Texas.

Susan Ginley (2001) M.A.
Clinical Assistant Professor of Speech and Hearing Sciences. M.A. 1985 University of Oregon.

Maria Kapantzoglou (2012) Ph.D.
Assistant Professor of Speech and Hearing Sciences. Ph.D. 2012 Arizona State University.

Sarah Key-Delyria (2012) Ph.D.
Assistant Professor of Speech and Hearing Sciences. Ph.D. 2011 The University of Florida.

Jennifer Larsen (2012) Ph.D.
Clinical Assistant Professor of Speech and Hearing Sciences. Ph.D. 2002 University of Oregon.

Andrew McMillin (2011) M.A.
Clinical Associate Professor of Speech and Hearing Sciences. M.A. 2000 University of Pittsburgh.

Claudia Meyer (2006) M.S.
Clinical Associate Professor of Speech and Hearing Sciences. M.S. 2002 Portland State University.

Elsa Nelson (2012) Au.D.

Clinical Assistant Professor of Speech and Hearing Sciences. Ed.D. 2007 Northwestern University.

Cassie Quinn (2013) M.A.
Clinical Assistant Professor of Speech and Hearing Sciences. M.A. 1995 California State University, Chico.
Emeriti Faculty

Robert L. Casteel (1966) Ph.D.
Professor Emeritus of Speech and Hearing Sciences. Ph.D. 1969 Oregon Health & Science University Medical School.

Thomas L. Dolan (1966) Ph.D.
Professor Emeritus of Speech and Hearing Sciences. Ph.D. 1983 University of Iowa.

Lynn Fox (1998) Ph.D.
Professor Emeritus of Speech and Hearing Sciences. Ph.D. 1998 University of Oregon.

Mary E. Gordon-Brannan (1972) Ph.D.
Professor Emerita of Speech and Hearing Sciences. Ph.D. 1993 Wichita State University.
Associate Professor Emerita of French. Ph.D. 1965 Fordham University.

Systems Science Graduate Program
Faculty

Wayne W. Wakeland (1976) Ph.D.
Associate Professor of Systems Science. Ph.D. 1977 Portland State University.

Martin Zwick (1976) Ph.D.
Professor of Systems Science. Ph.D. 1968 Massachusetts Institute of Technology.
Associated Faculty

Mohammad Aslam Khan Khalil (1995) Ph.D.
Professor of Physics. Ph.D. 1976 University of Texas; Ph.D. 1979 Oregon Graduate Center.

James McNames (1999) Ph.D.
Associate Professor of Electrical and Computer Engineering. Ph.D. 1999 Stanford University.

Melanie Mitchell (2004) Ph.D.
Professor of Computer Science. Ph.D. 1990 University of Michigan.

Renjeng Su (2009) D. Sc.
Dean Maseeh College of Engineering and Computer Science. D.Sc. 1980 Washington University, St. Louis.

Christof Teuscher (2008) Ph.D.

Assistant Professor of Engineering & Computer Science. Ph.D. 2004 Swiss Federal Institute of Technology, Lausanne.

Lisa Zurk (2005) Ph.D.
Professor of Electrical and Computer Engineering. Ph.D. 1995 University of Washington.
Adjunct Faculty

Mark Bedau (1993) Ph.D.
Professor of Philosophy and Humanities, Reed College. Ph.D. 1985 University of California, Berkeley.

John Fitzgerald (2007) Ph.D.
Field Researcher, Purdue Pharma L.P. Ph.D. 2007 Portland State University.

Jeffrey A. Fletcher (2007) Ph.D.
Adjunct Assistant Professor of Systems Science and University Studies. Ph.D. 2004 Portland State University.

David E. Hall (2009) Ph.D.
Adjunct Assistant Professor of Systems Science. Ph.D. 2008 Portland State University.

Michael S. Johnson (2006) Ph.D.
Director, Care Data Analysis, Kaiser Permanente. Ph.D. 2006 Portland State University.

Nancy Perrin (1995) Ph.D.
Senior Investigator, Kaiser Permanente, Center for Health Research. Ph.D. 1986 Ohio State University.

Danil Prokhorov (2004) Ph.D.
Computational Intelligence Manager, Toyota. Ph.D. 1997 Texas Tech.

Patrick Roberts (2005) Ph.D.
Biomedical Engineering, OHSU; Computational Neuroscientist, in Silico Biosciences, Inc. Ph.D. 1993 University of Gothenberg.

Thaddeus T. Shannon, III (2007) Ph.D.
Assistant Professor of Lighting Design, Department of Theatre-Dance, Western Oregon University. Ph.D. 2007 Portland State University.
Emeriti Faculty

George G. Lendaris (1970) Ph.D.
Professor Emeritus of Systems Science and Electrical Engineering. Ph.D. 1961 University of California, Berkeley.

Harold A. Linstone (1970) Ph.D.

Professor Emeritus of Systems Science.
Ph.D. 1954 University of Southern
California.

Beatrice T. Oshika (1989) Ph.D.
Professor Emerita of Systems Science. Ph.D.
1973 University of Michigan.

*Department of Women, Gender, and
Sexuality Studies*
Faculty

Sally McWilliams (2009) Ph.D.
Director, Department of Women, Gender,
and Sexuality Studies; Professor of Women,
Gender, and Sexuality Studies. Ph.D. 1992
University of Washington, Seattle.

Miriam Abelson (2014) Ph.D.
Assistant Professor of Women, Gender, and
Sexuality Studies. Ph.D. 2014 University of
Oregon.

Sridevi Nair (2011) Ph.D.
Assistant Professor of Women, Gender, and
Sexuality Studies. Ph.D. 2009 University of
Michigan, Ann Arbor.

Jamie Ross (2010) Ph.D.
Assistant Professor of Women, Gender, and
Sexuality Studies. Ph.D. 1995 University of
Oregon.

Lisa Weasel (2000) Ph.D.
Associate Professor of Women, Gender, and
Sexuality Studies. Ph.D. 1993 University of
Cambridge.

Sally Eck (2001) M.S.Ed
Senior Instructor in Women, Gender, and
Sexuality Studies. M.S.Ed. 2001 Portland
State University.

Marlene Howell (2001) M.S.
Senior Instructor in Women, Gender, and
Sexuality Studies. M.S. 1996 Mankato State
University.

Roberta Hunte (2011) Ph.D.
Assistant Professor in Women, Gender, and
Sexuality Studies. Ph.D. 2012 University of
Manitoba, Winnipeg.

Vicki Reitenauer (2000) B.A.
Instructor in Women, Gender, and Sexuality
Studies. B.A. 1986 Albright College.

*Department of World Languages and
Literatures*
Faculty

Jennifer Perlmutter (2002) Ph.D.

Chair, Department of World Languages and
Literatures; Associate Professor of French.
Ph.D. 2001 Duke University.

Anna Alsufieva (2009) Ph.D.
Assistant Professor of Russian. Ph.D. 2001
Herzen State Pedagogical University.

Pelin Basci (1997) Ph.D.
Associate Professor of Turkish. Ph.D. 1995
University of Texas-Austin.

Silvia Boero (2007) Ph.D.
Associate Professor of Italian. Ph.D. 2005
University of North Carolina, Chapel Hill.

Clifford Breedlove (2005) M.A.
Senior Instructor I of Arabic. M.A. 1995
Western Seminary, M.A.T. 1998 Portland
State University.

Jenny Ceciliano (2009) M.A.
Instructor of Spanish. M.A. 2006 Portland
State University.

Justin Coleman (2014) M.A.
Senior Instructor I of American Sign
Language. M.A. 2007 Portland State
University.

William Comer (2014) Ph.D.
Director Russian Flagship Center; Associate
Professor of Russian. Ph.D. 1992 University
of California, Berkeley.

Carrie Collenberg-Gonzalez (2015) Ph.D.
Assistant Professor of German. Ph.D.
University of Minnesota.

Enrique Cortez (2011) Ph.D.
Assistant Professor of Spanish. Ph.D. 2011
Georgetown University.

Laurie Cosgriff (1999) Ph.D.
Assistant Professor of Ancient Greek. Ph.D.
1994 University of North Carolina, Chapel
Hill.

Annabelle Dolidon (2008) Ph.D.
Associate Professor of French. Ph.D. 2008
University of California, Davis.

Jonah Eleweke (2013) Ph.D.
Senior Instructor of American Sign
Language. Ph.D. 1997 University of
Manchester (U.K.). Ph.D. 2004 University of
Alberta (Canada).

Craig Epplin (2012) Ph.D.
Assistant Professor of Spanish. Ph.D. 2009
University of Pennsylvania.

Nila Friedberg (2004) Ph.D.

Associate Professor of Russian. Ph.D. 2002
University of Toronto (Canada).

Steven Fuller (1990) Ph.D.
Associate Professor of German. Ph.D. 1990
Stanford University.

Kathie Godfrey (2000) Ed.D.
Assistant Professor of German. Ed.D. 2014
Portland State University.

Lina Gomaa (2012) M.A.
Senior Instructor I of Arabic. M.A. 2008
University of Salford (U.K.).

Gina Greco (1992) Ph.D.
Professor of French. Ph.D. 1992 Princeton
University.

Yasmeen Hanoosh (2010) Ph.D.
Assistant Professor of Arabic. Ph.D. 2008
University of Michigan.

Martha Hickey (1992) Ph.D.
Professor of Russian. Ph.D. 1985 Harvard
University.

Jon Holt (2010) Ph.D.
Assistant Professor of Japanese. Ph.D. 2010
University of Washington.

Isabel Jaen-Portillo (2010) Ph.D.
Associate Professor of Spanish. Ph.D. 2006
Purdue University.

Galina Kogan (1996) M.A.
Senior Instructor II of Russian. M.A. 1972
Kiev State Pedagogical Institute of Foreign
Languages (Ukraine).

Laurence R. Kominz (1983) Ph.D.
Professor of Japanese. Ph.D. 1984 Columbia
University.

Christina Kreft-Tengblad (2007) M.A.
Adjunct Instructor of Swedish. M.A. 1989
University of Gothenburg (Sweden).

Timm Menke (1988) Ph.D.
Professor of German. Ph.D. 1983 University
of Washington.

Quy Nguyen (2006) M.Ed.
Adjunct Instructor of Vietnamese. M.Ed.
2004 Portland State University.

Timothy Nidever (2012) M.A.
Instructor of Latin. M.A. 2009 University of
Oregon.

Eva Núñez-Méndez (2002) Ph.D.
Professor of Spanish. Ph.D. 1998 University
of Salamanca (Spain).

DeLys Ostlund (1991) Ph.D.

Professor of Spanish. Ph.D. 1993 University of Maryland.

Jonathan O. Pease (1986) Ph.D.
Professor of Chinese. Ph.D. 1986 University of Washington.

Lina Quiroga-Gonzalez (2013) M.A.
Instructor of Spanish. M.A. 2012 Portland State University.

Moshe Rachmuth (2012) Ph.D.
Senior Instructor I of Hebrew. Ph.D. 2010 University of Oregon.

Stephanie Roulon (2011) M.A.
Senior Instructor II of French. M.A. 2000 University of Wisconsin-Milwaukee.

Robert Sanders (2001) Ph.D.
Associate Professor of Spanish. Ph.D. 2001 University of Arizona.

Dirgham H. Sbait (1985) Ph.D.
Professor of Arabic/Semitic Languages, Literatures, and Folklore. Ph.D. 1982 University of Washington.

Anousha Sedighi (2005) Ph.D.
Associate Professor of Persian. Ph.D. 2005 University of Ottawa.

Cynthia Sloan (1992) Ph.D.
Associate Professor of Spanish and Portuguese. Ph.D. 1995 Vanderbilt University.

Steven L. Thorne (2011) Ph.D.
Associate Professor of Second Language Acquisition. Ph.D. 1999 University of California, Berkeley.

Stephen Wadley (1991) Ph.D.
Professor of Chinese. Ph.D. 1987 University of Washington.

Stephen Walton (1995) Ph.D.
Assistant Professor of French. Ph.D. 1992 University of Wisconsin-Madison.

Ines Warnock (1999) M.A.
Senior Instructor II of Spanish. M.A. 1999 Portland State University.

Josphat Waruhiu (2005) M.Ed.
Senior Instructor I of Swahili. M.Ed. 2000 Lewis & Clark University.

Suwako Watanabe (1990) Ph.D.
Professor of Japanese. Ph.D. 1991 Georgetown University.

Patricia J. Wetzel (1984) Ph.D.

Professor of Japanese. Ph.D. 1984 Cornell University.

Evgenia Wilkins (2013) M.A.
Instructor of Russian. M.A. 2005 Saint Petersburg State University.

KyungAh Yoon (2010) M.Ed.
Instructor of Korean. M.Ed. 2002 Columbia University.

Angela Zagarella (1993) M.A.
Senior Instructor II of Italian. M.A. 1984 University of Catania (Italy).
Emeriti Faculty

Jeanne Marie Bernard (1966) B.A.
Associate Professor Emerita of French. B.A. 1966 Portland State University.

George T. Cabello (1975) Ph.D.
Professor Emeritus of Spanish. Ph.D. 1974 University of Arizona.

Roderic C. Diman (1960) Ph.D.
Professor Emeritus of Spanish. Ph.D. 1971 University of Wisconsin.

Louis J. Elteto (1970) Ph.D.
Professor Emeritus of German and Hungarian. Ph.D. 1972 Louisiana State University.

Claudine G. Fisher (1972) D-es-L
Professor Emerita of French. Doctorat-es-Lettres 1983 University of Paris VIII (France).

Sandra Freels (1981) Ph.D.
Professor Emerita of Russian. Ph.D. 1976 Stanford University.

Franz Langhammer (1960) Ph.D.
Professor Emeritus of German. M.A. 1952, Ph.D. 1956 Northwestern University.

Laureen K. Nussbaum (1973) Ph.D.
Professor Emerita of German. Ph.D. 1977 University of Washington.

Linda Parshall (1986) Ph.D.
Professor Emerita of German. Ph.D. 1974 University of London.

Earl L. Rees (1970) Ph.D.
Professor Emeritus of Spanish. Ph.D. 1977 University of Southern California.

Kazem Tehrani (1975) Ph.D.
Associate Professor Emeritus of Persian. Ph.D. 1974 Columbia University.

Rita Rose Vistica (1975) Ph.D.
Associate Professor Emerita of French. Ph.D. 1965 Fordham University.

School of Social Work

Faculty

Ben Anderson-Nathe (2004) Ph.D.
Director, Child and Family Studies;
Associate Professor of Child and Family Studies. Ph.D. 2005 University of Minnesota.

Sarah S. Bradley (1998) M.S.S.W.
Director of MSW Program. Associate Professor of Practice. M.S.W. 1979 Columbia University.

Christiana Bratiotis (2015) Ph.D.
Assistant Professor of Social Work. Ph.D. 2009 Boston University

Katharine Cahn (2004) Ph.D.
Executive Director, Center for Improvement of Child and Family Services; Associate Professor of Social Work. Ph.D. 2003 Portland State University.

Miranda Cunningham (2015) M.A.
Instructor in Child and Family Studies. M.A. in Teaching 2010 Washington State University.

Victoria Cotrell (1998) Ph.D.
Associate Professor of Social Work. Ph.D. 1990 University of Texas.

Ann Curry-Stevens (2007) Ph.D.
Associate Professor of Social Work. Ph.D. (2005) University of Toronto.

William E. Donlan (2006) Ph.D.
Associate Professor of Social Work. Ph.D. 2006 Arizona State University.

Erin Flynn (2014) Ph.D.
Assistant Professor of Child and Family Studies. Ph.D. 2013 University of Michigan.

Samuel W. Gioia (2000) M.S.W.
Assistant Professor of Practice in Social Work. M.S.W. 1987 Portland State University.

Denise Grant (2009) M.S.W.
Field Specialist. M.S.W. 1996 Portland State University.

Valerie Hamby (2011) M.S.W.
Eugene Site Coordinator, M.S.W. Distance Option. M.S.W. 2005 Portland State University.

Lisa Hawash (2011) M.S.W.
Director of M.S.W. Online Option. Instructor in Social Work. M.S.W. 2005 Portland State University.

Lea Ann Holder (2011) M.S.W.
Assistant Director Child Welfare Education
Program. M.S.W. 2001 Portland State
University.

Mindy Holliday (1997) M.S.W.
Assistant Professor of Social Work. M.A.,
M.S.W. 1988 University of Michigan.

Michael Hulshof-Schmidt (2013) M.S.W.
Instructor in Social Work. M.S.W. 2013
Portland State University.

Pauline R. Jivanjee (1990) Ph.D.
Associate Professor of Social Work. Ph.D.
1992 University of Kansas.

Julie Kates (2007) M.S.W.
Director of Field Education, M.S.W.
Program; Assistant Professor of Practice.
M.S.W. 1995 Portland State University.

Thomas E. Keller (2006) Ph.D.
Duncan and Cindy Campbell Professor for
Children, Youth and Families; Associate
Dean for Research and Sponsored Projects.
Ph.D. 2000 University of Washington.

Ericka Kimball (2014) Ph.D.
Assistant Professor of Practice. Ph.D. 2012
University of Minnesota

Junghee Lee (2006) Ph.D.
Director of Ph.D. Program. Associate
Professor of Social Work. Ph.D. 2006
Arizona State University.

Michele Martinez Thompson (2011) M.S.W.
Salem Site Coordinator, M.S.W. Distance
Option. M.S.W. 2004 Arizona State
University.

Bowen McBeath (2004) Ph.D.
Professor of Social Work. Ph.D. 2006
University of Michigan.

Gita Mehrotra (2014) Ph.D.
Assistant Professor of Social Work. Ph.D.
2012 University of Washington.

Jana Meinhold (2004) Ph.D.
Associate Professor of Child and Family
Studies. Ph.D. 2005 Oregon State University.

Keva M. Miller (2008) Ph.D.
Associate Dean for Academic Affairs;
Associate Professor of Social Work. Ph.D.
2008 Fordham University.

Pamela J. Miller (1993) Ph.D.
Professor of Social Work. Ph.D. 1992
University of Pittsburgh.

James K. Nash (1999) Ph.D.
Associate Professor of Social Work. Ph.D.
1999 University of North Carolina, Chapel
Hill.

Christina Nicolaidis, (2013) M.D.
Professor. M.D. 1993 Columbia University.

Laura Burney Nissen (2000) Ph.D.
Dean and Professor of Social Work. Ph.D.
1997 University of Denver.

E. Roberto Orellana (2008) Ph.D.
Associate Professor of Social Work. Ph.D.
2009 Columbia University.

Monica Parmley (2012) M.S.W.
Field Specialist/Instructor. M.S.W. 2004
Portland State University.

Laurie E. Powers (2004) Ph.D.
Research Assistant. Ph.D. 1990 University of
Oregon.

Greg Pugh (2013) Ph.D.
Assistant Professor of Social Work. Ph.D.
2011 Michigan State University.

Susan Snyder (1993) M.S.W.
Assistant Professor of Practice. M.S.W. 1984
Portland State University.

Oren Shtayermman (2015) Ph.D.
Associate Professor of Social Work. Ph.D.
2006 Fordham University

Maria M. Talbott (1984) D.S.W.
Associate Professor of Social Work. D.S.W.
1986 University of California, Berkeley.

Michael O. Taylor (2002) Ph.D.
Associate Professor of Practice in Social
Work and Child and Family Studies. Ph.D.
2002 Portland State University.

Alma Trinidad (2009) Ph.D.
Assistant Professor in Social Work and Child
and Family Studies. Ph.D. 2010 University of
Washington.

Stéphanie Wahab (2005) Ph.D.
Professor of Social Work. Ph.D. 1997
University of Washington.

Emeriti Faculty

Sandra C. Anderson (1978) Ph.D.
Professor Emerita of Social Work. Ph.D.
1976 Rutgers University.

James L. Breedlove (1964) D.S.W.
Professor Emeritus of Social Work. D.S.W.
1962 Case Western Reserve University.

Eileen Muench Brennan (1986) Ph.D.
Professor Emerita of Social Work. Ph.D.
1977 University of Notre Dame.

Arthur C. Emlen (1965) Ph.D.
Professor Emeritus of Social Work. Ph.D.
1965 Tulane University.

Barbara Friesen (1983) Ph.D.
Professor Emerita of Social Work. Ph.D.
1983 University of Washington.

Charlotte Goodluck (2008) Ph.D.
Professor Emerita of Social Work. Ph.D.
1998 University of Denver.

Nancy M. Koroloff (1973) Ph.D.
Professor Emerita of Social Work. Ph.D.
1985 University of Oregon.

Carol A. Morgaine (1995) Ph.D.
Professor Emerita of Child and Family
Studies. Ph.D. 1990 University of
Minnesota.

Guido Pinamonti (1969) D.S.W.
Professor Emeritus of Social Work. D.S.W.
1961 University of Southern California.

Joan F. Shireman (1985) Ph.D.
Professor Emerita of Social Work. Ph.D.
1968 University of Chicago.

Lynn Thompson (1968) M.S.W.
Associate Professor Emeritus of Social
Work. M.S.W. 1964 University of California,
Berkeley.

James H. Ward (1988) Ph.D.
Distinguished Professor Emeritus of Social
Work. Ph.D. 1974 Ohio State University.

Norman L. Wyers (1974) D.S.W.
Professor Emeritus of Social Work. D.S.W.
1975 Columbia University.

Associated Faculty

Shauna L. Adams (2006) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
1991 Portland State University.

Kate Allen (2013) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2001 Smith College.

Marc Andrews (2013) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
1990 University of Pittsburgh.

Susan Barrios (2008) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
1988 Portland State University.

- Bill Boyd (2010) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2000 Portland State University.
- Traci Boyle-Galestiantz (2015) M.S.W.
Adjunct Instructor in Child and Family
Studies. M.S.W. 2005 Portland State
University.
- Beckie Child (2013) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2009 Portland State University.
- Kate Constable (2010) M.S.W.
Undergraduate Adviser. M.S.W. 2003
Portland State University.
- Katherine Davis (2001) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2000 Portland State University.
- Joseph DeFilippis (2011) M.S.W.
Adjunct Instructor in Child and Family
Studies. M.S.W. 1999 Hunter College.
- Joy DeGruy (2001) Ph.D.
Assistant Professor in Social Work. Ph.D.
2001 Portland State University.
- Malika Edden (2015) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2013 Portland State University.
- Denise Ernst (2015) Ph.D.
Adjunct Professor in Social Work. Ph.D.
2007 University New Mexico.
- Mónica García (2010) M.Ed.
Practicum Coordinator in Child and Family
Studies. M.Ed. 2008 Portland State
University.
- Wende Garrison (2013) M.S.T.
Adjunct Instructor. M.S.T. 2004 Portland
State University.
- Lindsay Goes Behind (2014) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2010 University of Washington.
- Lynn Green (2003) M.S.
Adjunct Instructor in Child and Family
Studies. M.S. 2011 Portland State University.
- Susan C. Hedlund (1986) M.S.W.
Instructor in Social Work. M.S.W. 1980
Portland State University.
- Katherine Kneupper (2014) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2006 Portland State University.
- Jean Lasater (2000) M.A.
Adjunct Instructor in Child and Family
Studies. M.A. 1979 Texas Tech University.
- Sandy Leotti (2013) M.S.W.
Adjunct Instructor in Social Work and Child
and Family Studies. M.S.W. 2006 University
of Montana.
- Kaig Lightner (2105) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2012 Portland State University.
- Staci Martin (2011) M.A.
Adjunct Instructor in Child and Family
Studies. M.A. The Art Institute of Chicago.
- David Molko (2013) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
1996 Barry University.
- Margaret Moore (2013) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
1991 Portland State University.
- Beth Okantey (2011) M.S.W.
Adjunct Instructor in Child and Family
Studies. M.S.W. 2001 Walla Walla
University.
- Andrew Price (2012) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2000 Portland State University.
- Julie Prindle (2009) Ph.D.
Adjunct Instructor in Social Work. Ph.D.
2012 Oregon State University.
- Andre Pruitt (2011) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2000 Portland State University.
- Elisabeth S. Race (2006) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
1990 Portland State University.
- Kathleen Rugberg (2013) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
1993 Portland State University.
- Peg Sandeen (2007) Ph.D.
Adjunct Instructor in Social Work. Ph.D.
2013 Portland State University.
- Cimone Schwoeffermann (2011) M.S.W.
Recruitment and Retention Specialist.
M.S.W. 2010 Portland State University.
- Wayne Scott (2004) M.A.S.W.
Adjunct Instructor in Social Work. M.A.S.W.
1989 University of Chicago.
- Gary Smith (2009) M.S.W.
Bend Site Coordinator, M.S.W. Distance
Option. M.S.W. 1974 Portland State
University.
- John Spence (1998) Ph.D.
Adjunct Assistant Professor of Social Work.
Ph.D. 1987 University of Washington.
- Nancy Lee Stewart (2005) M.B.A.
Adjunct Instructor in Child and Family
Studies. M.B.A. 2001 Portland State
University.
- Mark Weinmeister (2014) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2000 Portland State University.
- Edmond DeShawn Williams (2014) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
2006 Portland State University.
- Dawn J. Williamson (2008) M.S.W.
Adjunct Instructor in Social Work. M.S.W.
1991 Portland State University.
- Nichole Winges-Yanez (2014) M.S.W.
Adjunct Instructor in Child and Family
Studies. M.S.W. 2012 Portland State
University.
- Regional Research Institute for Human
Services*
Associated Faculty
- Lewis I. Bank (2000) Ph.D.
Adjunct Research Professor in Social Work,
Regional Research Institute for Human
Services. Ph.D. 1982 University of California
at Los Angeles.
- April Baque (2011) M.S.W.
Senior Research Assistant, Regional
Research Institute for Human Services.
M.S.W. 2011 Portland State University.
- Jennifer Blakeslee (2012) Ph.D.
Research Associate, Regional Research
Institute for Human Services. Ph.D. 2012
Portland State University.
- Eileen Muench Brennan (1986) Ph.D.
Research Professor of Social Work, Regional
Research Institute for Human Services. Ph.D.
1977 University of Notre Dame.
- Jim Carlton (1998) B.A.
Research Associate, Regional Research
Institute for Human Services. B.A. 1993
University of Oregon.
- Karen Cellarius (1999) M.P.A.

- Senior Research Associate, Regional Research Institute for Human Services. M.P.A. 1995 Columbia University.
- Mandy Davis (2002) M.S.W. Research Associate, Regional Research Institute for Human Services. M.S.W. University of South Carolina, Columbia.
- Debra J. Elliott (1992) Ph.D. Senior Research Associate, Regional Research Institute for Human Services. Ph.D. 1994 Ohio State University.
- Barbara J. Friesen (1983) Ph.D. Research Professor in Social Work. Ph.D. 1983 University of Washington.
- Sarah Geenen (2004) Ph.D. Research Associate Professor, Regional Research Institute for Human Services. Ph.D. 1998 DePaul University.
- Eleanor Gil-Kashiwabara (2004) Psy.D. Research Associate Professor in Social Work. Psy.D. 2002 Pacific University.
- Kris Gowen (2006) Ph.D. Research Associate, Regional Research Institute for Human Services. Ph.D. 1998 Stanford University.
- Annabelle Hussaini (2011) M.S.W. Research Associate, Regional Research Institute for Human Services. M.S.W. 2007 University of Southern California.
- Nancy M. Koroloff (1973) Ph.D. Research Professor of Social Work, Regional Research Institute for Human Services. Ph.D. 1985 University of Oregon.
- Brianne Kothari (2006) M.A. Senior Research Associate, Regional Research Institute for Human Services. M.A. 2005 Washington State University.
- Marcela Lopez (2011) M.S. Senior Research Assistant, Regional Research Institute for Human Services. M.S. 2004 Portland State University.
- Lisa McMahon (2004) B.S. Research Associate, Regional Research Institute for Human Services. B.S. 1999 Eastern Michigan University.
- Elizabeth McNeff (2004) M.P.A. Research Associate, Regional Research Institute for Human Services. M.P.A. 1993 Portland State University.
- Ryan Melton (2012) Ph.D.
- Senior Research Associate, Regional Research Institute for Human Services. Ph.D. 2012 Oregon State University.
- Lindsay Merritt (2012) M.S.W. Research Associate, Director, Regional Research Institute for Human Services. M.S.W. 2012 Portland State University.
- Celeste Moser (2010) M.S. Research Associate, Regional Research Institute for Human Services. M.S. 2010 Portland State University.
- Mary Oswald (2004) Ph.D. Director of Regional Research Institute for Human Services. Research Associate Professor in Social Work. Ph.D. 2002 Portland State University.
- John Ossowski (2011) M.S.W. Research Associate, Regional Research Institute for Human Services. M.S. 2006 State University of New York Institute of Technology. M.S.W. 2011 Portland State University.
- Lee Ann Phillips 2006 M.S.W. Research Associate, Regional Research Institute for Human Services. M.S.W. 2010 Portland State University.
- Summer Pommier-Satya (2004) M.S.W. Research Associate, Regional Research Institute for Human Services. M.S.W. 2007 Portland State University.
- Dora Raymaker (2009) M.S. Research Associate, Regional Research Institute for Human Services. M.S. 2009 Portland State University.
- Anna Rockhill (1989) M.P.P. Senior Research Associate, Regional Research Institute for Human Services. M.P.P. University of Michigan.
- Rebecca Ruston (2004) M.S. Senior Research Assistant, Regional Research Institute for Human Services. M.S. 2000 Portland State University.
- Tamara Sale (1992) M.A. Research Associate, Regional Research Institute for Human Services. M.A. 1992 University of Minnesota.
- Jessica Schmidt (2007) M.S.W.
- Research Associate, Regional Research Institute for Human Services. M.S.W. 2007 San Diego State University.
- Rollin Shelton (2004) Research Associate, Regional Research Institute for Human Services.
- Janet S. Walker (1998) Ph.D. Research Associate Professor in Social Work. Ph.D. 1997 University of Chicago.
- Sara Webb (2008) M.S. Senior Research Associate, Regional Research Institute for Human Services. M.S. 2006 University of Oregon.
- Diane Yatchmenoff (1999) Ph.D. Research Assistant Professor in Social Work. Ph.D. 2001 Portland State University.
- Center for Improvement of Child and Family Services*
Faculty
- Katharine Cahn (2004) Ph.D. Executive Director. Ph.D. 2003 Portland State University.
- William Baney (2004) M.Ed. Director, Systems of Care Institute. M.Ed. 1991 University of San Francisco.
- Susie Barrios (2008) M.S.W. Senior Trainer/Consultant. M.S.W. 1988 Portland State University.
- Linda Bello (1997) M.S.W. Lead Child Welfare Trainer, CWP Training Program. M.S.W. 1985 Portland State University.
- Andrea Bellows (2013) M.S.W. Child Welfare Trainer, CWP Training Program. M.S.W. 2004 Portland State University.
- Jennifer Blakeslee (2013) Ph.D. Research Associate/Family Connections OR. Ph.D. 2012 Portland State University.
- Michelle Clinch (2011) M.S. Online Learning Specialist. M.S. 2003 Portland State University.
- Amanda Cross-Hemmer (2008) M.A. Senior Research Assistant. M.A. 2009 Portland State University.

- Cate Drinan (2010) M.A.
Project Manager/Consultant. M.A. 2000
Lewis and Clark College.
- Thuan Duong (2005) B.S.
Senior Research Assistant. B.S. 2005 Reed
College.
- Dan Embree (2011) M.Ed.
Senior Trainer/Consultant. M.Ed. 1997
University of Alaska.
- Shelly Field (2013) B.A.
Child Welfare Trainer, CWP Training
Program. B.A. Psychology, Oregon State
University.
- Carrie Furrer (2011) Ph.D.
Research Assistant Professor. Ph.D. 2005
Portland State University.
- Daniel Garris (2006) M.A.
Child Welfare Trainer, CWP Training
Program. M.A. Philosophy/Theological
Studies, Western Evangelical Seminary.
- Beth Green (2010) Ph.D.
Director, Early Childhood Research. Ph.D.
1993 Arizona State University.
- Shantika Green (2014) M.S.W.
Child Welfare Trainer, CWP Training
Program. M.S.W. 2011 Portland State
University.
- Aimee Griffin (2014) B.S.
Trainer/Consultant. B.S. 1998 North Dakota
State University.
- Lea Ann Holder (2011) M.S.W.
Assistant Director, CWEP. M.S.W. 2001
Portland State University.
- Mollie Janssen (2013) M.S.W.
Trainer/Consultant. M.S.W. 1998 Portland
State University.
- Callie Lambarth (2011) M.S.W.
Senior Research Assistant. M.S.W. 2005
Portland State University.
- Marisa Lara (2003) M.P.A.
Director of Operations and Administration.
M.P.A. 2007 Portland State University.
- Marthe Lowrey (2003) M.S.W.
- Director, CWP Workforce Development.
M.S.W. 1990 California State University,
Sacramento.
- Frances McMahon (2013) B.A.
Caregiver Trainer, CWP Training
Program. B.A. Sociology 1969 Middle
Tennessee State University.
- Karen Moorhead (2012) M.S.W.
Instructor, Campus Program Advisor.
M.S.W. 1987 Portland State University.
- Kirstin O'Dell (1997) M.S.W.
Senior Research Assistant, Child Welfare
Partnership. M.S.W. 1997 University of
Kentucky, Lexington.
- Lindsey Patterson (2013) M.S.
Senior Research Assistant/Research
Coordinator. M.S. 2010 Portland State
University.
- John Pavlack (2014) B.A.
Trainer/Consultant. B.A. 1992 Purdue
University.
- Deborah Reed (2010) M.S.W.
Project Manager. M.S.W. 1984 University of
Washington.
- Angela C. Rodgers (1999) M.S.
Research Associate. M.S. 1998 Portland
State University.
- Eliz Roser (2014) M.S.W.
Business Coordinator. M.S.W. 2011 Portland
State University.
- Nikki Rowe (2013) M.S.W.
Training Coordinator. M.S.W. 2011
University of Southern California.
- Jennifer Scholes (2008) M.A.
Child Welfare Trainer, CWP Training
Program. M.A. Sociology, Bowling Green
State University.
- Charles Smith (2014) M.S.W.
Project Manager. M.S.W. 1982 Michigan
State University.
- Kris Villanueva, M.S.W.
Assistant Training Director, CWP Training
Program. M.S.W. 1995 Portland State
University.
- Jeff Waid (2013) M.S.W.
Senior Research Assistant/CWEP Evaluator.
M.S.W. 2008 Portland State University.
- Michelle Warden, M.S.W.
Child Welfare Trainer, CWP Training
Program. M.S.W. 2014 Portland State
University.
- Mark Zubaty (2013) B.S.
Trainer/Consultant. B.S. Ball State
University.

Undergraduate Studies

Intensive English Language Program

- Della Abrahams (2011) M.A.
Instructor in English as a Second Language.
M.A. 2011 Portland State University.
- Lori Barkley (2008) M.A.
Senior Instructor 2 in English as a Second
Language. M.A. 2003 University of Idaho,
Moscow.
- Errin Beck (2010) M.A.
Senior Instructor 1 in English as a Second
Language. M.A. 2009 Portland State
University.
- Amber Bliss-Calderon (2001) M.A.
Senior 1 Instructor in English as a Second
Language. M.A. 2004 Portland State
University.
- Brett Bolstad (2010) M.A.
Instructor in English as a Second Language.
M.A. 2008 Portland State University.
- Allison Brown (2009) M.A.
Instructor in English as a Second Language.
M.A. 2002 Portland State University.
- David Bunk (2009) M.A.
Instructor in English as a Second Language.
M.A. 1999 Bilkent University.
- Alexandria Cesar (1998) M.A.
Senior Instructor 2 in English as a Second
Language. M.A. 2004 Portland State
University.
- Ruth Chapin (1989) M.A.
Senior Instructor 2 in English as a Second
Language. M.A. 1988 Portland State
University.

Phoebe Daurio (2011) M.A.
Senior 1 Instructor in English as a Second Language. M.A. 2010 Portland State University.

Eowyn Ferey (2007) M.A.
Senior 1 Instructor in English as a Second Language. M.A. 2005 University of Essex, England.

Amanda Franzoni (2000) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 2001 Portland State University.

Kellie Gallagher (2006) M.A.
Senior 1 Instructor in English as a Second Language. M.A. 2006 Monterey Institute of International Studies, California.

Anne Greenhoe (2015) M.A.
Instructor in English as a Second Language. M.A. University of Wisconsin, Milwaukee.

Wayne Gregory (2012) Ph.D.
Academic Director, Intensive English Language Program; Instructor in English as a Second Language. Ph.D. 1992 Louisiana State University.

Shannon Guinn-Collins (2012) M.A.
Instructor in English as a Second Language. M.A. 2011 Portland State University.

Julie Haun (1995) M.A.
Director, Intensive English Language Program; Instructor in English as a Second Language. M.A. 1995 Portland State University.

Courtney Hearon (2015) M.A.
Instructor in English as a Second Language M.A. TESOL Portland State University

Susan Lindsay M.A.
Senior Instructor 2 in English as a Second Language. M.A. 1996 Portland State University.

Julia Youst MacRae (2003) M.A.
Senior 1 Instructor in English as a Second Language. M.A. 2005 Portland State University.

Katherine McCurdie (2012) M.A.
Instructor in English as a Second Language. M.A. 2009 Portland State University.

Lisa McKinney (2006) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 2005 Port

Monika Mulder (2009) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 2007 Portland State University.

Miranda Novash (2012) M.A.
Instructor in English as a Second Language. M.A. 2003 Portland State University.

Barbara Pijan (2012) M.A.
Instructor in English as a Second Language. M.A. 2007 Portland State University.

Judy Reed (1997) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 1991 University of Houston.

Talisman Saunders (1999) M.A.
Senior 2 Instructor in English as a Second Language. M.A. 1998 Portland State University.

Leslie Siebert (2001) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 2000 Portland State University.

Darbra Smith (2006) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 2005 Portland State University.

Linnea Spitzer (2010) M.A.
Senior 1 Instructor in English as a Second Language. M.A. 2008 Portland State University.

Jennifer Stenseth (2009) M.A.
Senior 1 Instructor in English as a Second Language. M.A. 2008 Portland State University.

Gwen Heller Tuason (2005) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 2005 Portland State University.

Hilary Wang (2001) M.A.
Senior 2 Instructor in English as a Second Language. M.A. 2000 Portland State University.

Regina Weaver (1998) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 1997 University of British Columbia.

Shannon West (2015) M.A.
Instructor in English as a Second Language. M.A. TESOL, Portland State University.

Margaret Young (1993) M.A.
Senior Instructor 2 in English as a Second Language. M.A. 1981 Portland State University.

Military Science Faculty

Paul D. Kemper (2012) B.S.
Captain, U.S. Army; Program Manager. B.S. 1999 Southern Oregon University.

University Studies Faculty

Yves Labissiere (1996) Ph.D.
Interim Director. Ph.D. 1995 University of California, Santa Cruz.

Deborah Arthur (2003) J.D., M.A.
Assistant Professor of University Studies. M.A. 1990 Ohio State University; J.D. 1993 University of Connecticut School of Law.

Leslie Batchelder (2000) Ph.D.
Assistant Professor of University Studies. Ph.D. 2000 University of California, Davis.

Daneen Bergland (2010) M.A.
Instructor of University Studies. M.A. 2006 Portland State University.

Mirela Blekic (2008) Ph.D.
Retention Associate, University Studies. Ph.D. 2011 Portland State University.

Rowanna Carpenter (2007) Ph.D.
Assessment Coordinator, University Studies. Ph.D. 2009 Portland State University.

J.R. Estes (2005), Ph.D.
Assistant Professor of University Studies. Ph.D. 2005 Portland State University.

Celine Fitzmaurice (2007) M.A.
Instructor of University Studies. M.A. 1995 University of Minnesota.

Michael J. Flower (1992) Ph.D.
Professor, University Studies. Ph.D. 1969 University of Wisconsin.

Molly Gray (2006) M.S.W.
Instructor of University Studies. M.S.W. 2004 Portland State University.

Seanna Kerrigan (1995) Ed.D.
Director, Senior Capstone Program. Ed.D. 2004 Portland State University.

Anne Knepler (2009) Ph.D.

Instructor of University Studies. Ph.D. 2010
University of Illinois at Chicago.

Mike Lane (1997) M.A.
Instructional Designer, University Studies.
M.A. (1994) University of Northern
Colorado.

Dana Lundell (2010) Ph.D.
Director of Mentor Program, University
Studies. Ph.D. 1999 University of Minnesota.

Alan MacCormack (1999) Ph.D.
Assistant Professor of University Studies.
Ph.D. 1982 University of North Carolina,
Chapel Hill.

Betsy Natter (2005) M.S.
Instructor of University Studies. M.S. 1998
Oregon Graduate Institute.

Sarah Newlands (2007) M.F.A.
Assistant Professor of University Studies.
M.F.A. 2003 Portland State University.

Heather Petzold (2006) M.S.
Instructor of University Studies. M.S. 1998
Portland State University.

Leanne Serbulo (2008) Ph.D.
Instructor of University Studies. Ph.D. 2008
Portland State University.

Anmarie Trimble (2000) M.A.
Assistant Professor of University Studies.
M.A. 1998 Portland State University.
Associated Faculty

Lisa Bates (2009) Ph.D.
Assistant Professor, English/University.
Ph.D. 2006 University of North Carolina at
Chapel Hill.

Joel Bettridge (2006) Ph.D.
Assistant Professor, English/University
Studies. Ph.D. 2002 State University of New
York, Buffalo.

Becky Boesch (1994) Ed.D.
Assistant Professor of University Studies.
Ed.D. 2009 Portland State University.

Christopher Butenhoff (2007) Ph.D.
Assistant Professor, Physics/University
Studies. Ph.D. 2009 Portland State
University.

Christopher Carey (2005) Ph.D.
Assistant Professor of University Studies.
Ph.D. 2008 The Arizona State University.

Evguenia Davidova (2002) Ph.D.
Assistant Professor, International
Studies/University Studies. Ph.D. 1998

Institute of History, Bulgarian Academy of
Sciences.

Grace Dillon (1997) Ph.D.
Associate Professor, Native American
Studies/University Studies. Ph.D. 1997
University of California, Riverside.

Thomas Fisher (2002) Ph.D.
Assistant Professor, English/University
Studies. Ph.D. 2002 State University of New
York at Buffalo.

Joshua Fost (2007), Ph.D.
Assistant Professor of University Studies.
Ph.D. 1996 Princeton University.

Jeffrey Gerwing (2001) Ph.D.
Associate Professor, Environmental Sciences
and Management/University Studies. Ph.D.
2001 Pennsylvania State University.

Betty Izumi (2010) Ph.D.
Assistant Professor, Community
Health/University Studies. Ph.D. 2008
Michigan State University .

Jesse Locker (2009) Ph.D.
Assistant Professor, Art/University Studies.
Ph.D. 2007 Johns Hopkins University.

Joseph Long (1998) Ph.D.
Assistant Professor, International
Studies/University Studies. Ph.D. 1997
Stanford University.

Lea Millay (2009) Ph.D.
Assistant Professor, Comparative
Literature/University Studies. Ph.D. 2000
University of Oregon.

Ben Perkins (2003) Ph.D.
Assistant Professor, Geology/University
Studies. Ph.D. 2000 Portland State
University.

Jamie Ross (1992) Ph.D.
Assistant Professor of University Studies.
Ph.D. 1995 University of Oregon.

Alexander Sager (2009) Ph.D.
Assistant Professor, Philosophy/University
Studies. Ph.D. 2009 University of Calgary.

Robert Scheller (2009) Ph.D.
Assistant Professor, Environmental Science
and Management/University Studies. Ph.D.
2004 University of Wisconsin-Madison.

Jack Straton (1994) Ph.D.
Associate Professor, Physics/University
Studies. Ph.D. 1986 University of Oregon.

Jennifer Tappan (2009) Ph.D.

Assistant Professor, History/University
Studies. Ph.D. 2010 Columbia University.

Michael O. Taylor (2002) Ph.D.
Assistant Professor, University Studies.
Ph.D. 2002 Portland State University.

Christof Teuscher (2008) Ph.D.
Assistant Professor, Electrical & Computer
Engineering/University Studies. Ph.D. 2004
Swiss Federal Institute of Technology.

Alma Trinidad (2009) Ph.D.
Assistant Professor, Child and Family
Studies/University Studies. Ph.D. (2009)
University of Washington, Seattle.

Lindsey Wilkinson (2008) Ph.D.
Assistant Professor, Sociology/University
Studies. Ph.D. 2008 University of Texas,
Austin.

University Honors College

Ann Marie Fallon (2002) Ph.D.
Director, University Honors College;
Professor of Humanities and International
Studies. Ph.D. 2003 University of Virginia.

Brianna Avery (2014) M.Phil.
Honors Academic Advisor. M.Phil. 2003
Columbia University.

Nora Quiros
Program Coordinator

Faculty

Tina Burdsall (2013) Ph.D.
Instructor, Sociology/University Honors
College. Ph.D. 2013 Portland State
University.

Ann Marie Fallon (2002) Ph.D.
Director, University Honors College;
Professor of Humanities and International
Studies. Ph.D. 2003 University of Virginia.

Kathleen Merrow (1997) Ph.D.
Associate Professor of Interdisciplinary
Studies, Social Sciences. Ph.D. 1998 Cornell
University.

Federico Pérez (2015) Ph.D.
Assistant Professor of Urban Anthropology.
Ph.D. 2014 Harvard University.

M. Kaia Sand (2012) M.F.A.

Poet in Residence, Adjunct Assistant Professor of University Honors. M.F.A. 2001 George Mason University.

Olyssa Starry (2013) Ph.D.
Assistant Professor of Urban Ecology. Ph.D. 2013 University of Maryland, College Park.

Lawrence P. Wheeler (1976) Ph.D.
Professor of Humanities and Applied Linguistics, University Honors College. Ph.D. 1993 University of Oregon.

David Wolf (2013) Ph.D.
Instructor of University Honors. Ph.D. 1995 City University of New York, Graduate School and University Center.

William H. York (2005) Ph.D.
Adjunct Instructor of University Honors. Ph.D. 2003 Johns Hopkins University.

Emeriti Faculty

Michael F. Reardon (1964) Ph.D.
Professor Emeritus of History and Humanities. Ph.D. 1965 Indiana University.

Michael J. Flower (1992) Ph.D.
Professor Emeritus of Interdisciplinary Science Studies. Ph.D. 1969 University of Wisconsin.

College of Urban and Public Affairs

Stephen Percy (2014) Ph.D.
Dean, College of Urban and Public Affairs; Professor of Political Science. Ph.D. 1981 Indiana University.

Sy Adler (1982) Ph.D.
Associate Dean, College of Urban and Public Affairs; Professor of Urban Studies and Planning. Ph.D. 1980 University of California, Berkeley.

Robin Michell (2007) B.S.
Assistant Dean, College of Urban and Public Affairs. B.S. 1984 California State University, Sacramento.

School of Community Health Faculty

Carlos J. Crespo (2005) Dr.P.H.

Director and Professor, School of Community Health. Dr.P.H. 1989 Loma Linda University.

Gary R. Brodowicz (1986) Ph.D.
Professor of Community Health. Ph.D. 1986 Ohio State University.

Paula Carder (2007) Ph.D.
Associate Professor of Community Health. Ph.D. 1999 Portland State University.

Christopher Carey (2013) Ph.D.
Associate Professor of Community Health. Ph.D. 2008 Arizona State University.

Alexis Dinno (2009) Sc.D.
Assistant Professor of Community Health. Sc.D. 2006 Harvard University.

Cara Eckhardt (2009) Ph.D.
Assistant Professor of Community Health. Ph.D. 2004 University of North Carolina, Chapel Hill.

Kelly L. Gonzales (2011) Ph.D.
Assistant Professor of Community Health. Ph.D. 2010 Oregon State University.

Betty Izumi (2009) Ph.D.
Assistant Professor of Community Health. Ph.D. 2008 Michigan State University.

Yves Labissiere (1996) Ph.D.
Associate Professor, Community Health/University Studies. Ph.D. 1995 University California, Santa Cruz.

Jane Mercer (1986) M.S.
Senior Instructor II; Undergraduate Adviser. M.S. 1986 Portland State University.

Leslie McBride (1985) Ph.D.
Associate Professor of Community Health. Ph.D. 1979 Southern Illinois University.

Lynne Messer (2012) Ph.D.
Assistant Professor of Community Health. Ph.D. 2005 University of North Carolina; Chapel Hill, NC.

Randy Miller (1998) M.S.T.
Director, Service Course Programs in Physical Education. M.S.T. 1992 Portland State University.

Margaret B. Neal (1983) Ph.D.
Director, Institute on Aging; Professor of Community Health; Research Associate. Ph.D. 1985 Portland State University.

Jason T. Newsom (1996) Ph.D.
Professor, School of Community Health. Ph.D. 1993 Arizona State University.

Dawn Richardson (2012) Dr.P.H.
Assistant Professor of Community Health. Dr.P.H. 2010 University of California, Berkeley.

Karen Seccombe (1998) Ph.D.
Professor of Community Health. Ph.D. 1985 Washington State University.

Judith L. Sobel (1985) Ph.D.
Associate Professor of Community Health. Ph.D. 1981 University of Minnesota.

Christina Sun (2014) Ph.D.
Assistant Professor of Community Health. Ph.D. 2014 Johns Hopkins University.

Liana Winett (2000) Dr.P.H.
Associate Professor of Community Health. Dr.P.H. 1997 University of California, Berkeley.

Lawrence Wallack (1999) Dr.P.H.
Professor of Public Health; Director, Center for Public Health Studies, Dr.P.H. 1982 University of California, Berkeley.

Belinda Zeidler (1985) M.S.T.
Senior Instructor II; Undergraduate Adviser. M.S.T. 1996 Portland State University. Emeriti Faculty

Mark Kaplan (1997) Dr. P.H.
Professor Emeritus of Community Health. Dr.P.H. 1984 University of California, Berkeley.

Mark O. Hatfield School of Government

Ronald L. Tammen (2000) Ph.D.
Director, Mark O. Hatfield School of Government. Ph.D. 1975 University of Michigan. Division of Criminology and Criminal Justice Faculty

Christopher Campbell (2015) Ph.D.
Assistant Professor of Criminology and Criminal Justice, Ph.D. 2015 Washington State University.

Kris Robert Henning (2001) Ph.D.
Professor of Criminology and Criminal Justice. Chair, Criminology and Criminal Justice, Ph.D. 1995 University of Vermont.

Ryan Labrecque (2015) Ph.D.

Assistant Professor of Criminology and Criminal Justice, Ph.D. 2015 University of Cincinnati

Laura Hickman (2007) Ph.D.

- Professor of Criminology and Criminal Justice. Director, CCJO; Ph.D. 2000 University of Maryland.
- Mark Leymon (2012) Ph.D.
Assistant Professor of Criminology and Criminal Justice, Ph.D. 2010 University of Oregon.
- Debra Lindberg (2006) Ph.D.
Assistant Professor of Criminology and Criminal Justice, Ph.D. 1996 Portland State University.
- Robert W. Lockwood (1975) J.D.
Professor of Criminology and Criminal Justice, J.D. 1974 University of Oregon.
- Danielle McGurrin (2007) Ph.D.
Associate Professor of Criminology and Criminal Justice, Ph.D. 2007 University of South Florida.
- Brian C. Renauer (2000) Ph.D.
Professor of Criminology and Criminal Justice. Director, Criminal Justice Policy Research Institute, Ph.D. 2000 State University of New York at Albany.
- Curt Sobolewski (2011) Ph.D.
Senior Instructor II of Criminology and Criminal Justice, Ph.D. 1999 Arizona State University.
Emeriti Faculty
- William H. Feyerherm (1990) Ph.D.
Professor Emeritus of Criminology and Criminal Justice, Ph.D. 1977 State University of New York, Albany.
- Annette I. Jolin (1990) Ph.D.
Professor Emerita of Criminology and Criminal Justice. Ph.D. 1985 Portland State University.
- Gary Perlstein (1971) Ph.D.
Professor Emeritus of Criminology and Criminal Justice. Ph.D. 1971 Florida State University.
Division of Political Science Faculty
- Lindsay Benstead (2009) Ph.D.
Assistant Professor of Political Science. Ph.D. 2008 University of Michigan.
- Richard L. Clucas (1995) Ph.D.
Professor of Political Science. Ph.D. 1990 University of California, Santa Barbara.
- Joshua Eastin (2013) Ph.D.
Assistant Professor of Political Science. Ph.D. 2013 University of Washington.
- Bruce Gilley (2008) Ph.D.
Associate Professor of Political Science. Ph.D. 2007 Princeton University.
- David Kinsella (2002) Ph.D.
Professor of Political Science and International Studies. Ph.D. 1993 Yale University.
- Rachel Sanders (2015) Ph.D.
Assistant Professor of Political Science. Ph.D. 2013 University of Washington.
- Christopher Shortell (2008) Ph.D.
Assistant Professor of Political Science. Ph.D. 2004 University of California, San Diego.
- Ron L. Tammen (1975) Ph.D.
Professor of Political Science. Ph.D. 1975 University of Michigan.
- Melody Ellis Valdini (2006) Ph.D.
Associate Professor. Ph.D. University of California, San Diego, 2006.
- Kim Williams (2011) Ph.D.
Associate Professor of Political Science. Ph.D. 2001 Cornell University.
- Birol A. Yesilada (1998) Ph.D.
Professor of Political Science and International Studies; Turkish Political Economy and Trade Chair. Ph.D. 1984 University of Michigan.
Emeriti Faculty
- Ralph E. Bunch (1970) Ph.D.
Professor Emeritus of Political Science. Ph.D. 1968 University of Oregon.
- Craig L. Carr (1985) Ph.D.
Professor of Political Science. Ph.D. 1978 University of Washington.
- Mel Gurtov (1986) Ph.D.
Professor Emeritus of Political Science and International Studies. Ph.D. 1970 University of California, Los Angeles.
- Gary L. Scott (1979) Ph.D.
Professor Emeritus of Political Science. Ph.D. 1973 University of Washington.
Associated Faculty
- Peter Bechtold (2012) Ph.D.
Adjunct Professor of Political Science. Ph.D. 1967 Princeton University.
- Lois Martin Brofman (1986) Ph.D.
Adjunct Professor of Political Science. Ph.D. 1972 University of Oregon.
- David M. Johns (1981) M.S., J.D.
Adjunct Professor of Political Science. J.D. 1980 Columbia University Law School.
- Theodore Kulongoski (2012) J.D.
Distinguished Fellow of Public Policy and Politics. J.D. 1970 University of Missouri.
- Laura Locker (2010) Ph.D.
Adjunct Assistant Professor of Political Science. Ph.D. 2010 Johns Hopkins University.
- Paul Timmermans (2013) Ph.D.
Adjunct Assistant Professor of Political Science. Ph.D. 2011 University of Denver.
- Ayesha Umar Wahedi (2011) Ph.D.
Adjunct Assistant Professor of Political Science. Ph.D. 2011 Portland State University.
Division of Public Administration Faculty
- Jennifer Allen (2009) Ph.D.
Associate Professor of Public Administration. Ph.D. 1996 George Mason University.
- Phillip Cooper (2004) Ph.D.
Professor of Public Administration. Ph.D. 1978 Syracuse University.
- Jack Corbett (1996) Ph.D.
Professor of Public Administration. Ph.D. 1974 Stanford University.
- Erna G. Gelles (1998) Ph.D.
Associate Professor of Public Administration. Ph.D. 1994 University of Georgia.
- Sherril B. Gelmon (1994) Dr.P.H.
Professor of Public Health. Dr.P.H. 1990 University of Michigan.
- Georgia Harris (2004) Ph.D.
Associate Professor of Public Administration. Ph.D. 2003 Rutgers University.
- Marcus Ingle (2003) Ph.D.
Professor of Public Administration. Ph.D. 1977 Syracuse University.
- Matthew Jones (2009) Ph.D.
Assistant Professor of Practice. Ph.D. 2008 Portland State University.
- Theresa Kaimanu (1988) Ph.D.
Associate Professor of Public Administration. Ph.D. 1988 University of Washington.
- Kevin Kecskes (2012) Ph.D.

Associate Professor of Public Administration. Ph.D. 2008 Portland State University.

Masami Nishishiba (2003) Ph.D. Associate Professor of Public Administration. Ph.D. 2003 Portland State University.

Jill Rissi (2009) Ph.D. Assistant Professor of Public Administration. Ph.D. 2008 Arizona State University.

Billie Sandberg (2012) Ph.D. Assistant Professor of Public Administration. Ph.D. 2011 Arizona State University.

Craig Shinn (1996) Ph.D. Associate Professor of Public Administration. Ph.D. 1992 University of Washington.

Rita Sumner (2012) Ph.D. Assistant Professor of Practice. Ph.D. 2009 Portland State University.

Neal Wallace (2000) Ph.D. Associate Professor of Public Administration. Ph.D. 1999 University of California, Berkeley. Emeriti Faculty

Ronald C. Cease (1966) Ph.D. Professor Emeritus of Public Administration. Ph.D. 1965 Claremont Graduate School.

Lindsay Desrochers (1991) Ph.D. Professor Emerita of Public Administration. Ph.D. 1980 University of California, Berkeley.

Walter G. Ellis (1976) Ph.D. Professor Emeritus of Public Administration. Ph.D. 1971 University of Washington.

Suzanne Feeney (1996) Ph.D. Associate Professor Emerita of Public Administration. Ph.D. 1984 University of Washington.

Gretchen Kafoury (2006) M.P.A. Assistant Professor Emerita of Public Administration. M.P.A. 2000 Portland State University.

Henry D. Kass (1996) Ph.D. Professor Emeritus of Public Administration. Ph.D. 1969 The American University.

Douglas Morgan (1996) Ph.D. Professor Emeritus of Public Administration. Ph.D. 1971 University of Chicago.

Daniel E. O'Toole (1977) Ph.D.

Professor Emeritus of Public Administration. Ph.D. 1977 University of Southern California.

Brian Stipak (1982) Ph.D. Professor Emeritus of Public Administration. Ph.D. 1976 University of California, Los Angeles. Associated Faculty

Vanetta Abdellatif (2014) M.P.H. Adjunct Associate Professor of Public Administration. M.P.H. 1990 San Diego State University

Oliver Droppers (2010) Ph.D. Adjunct Assistant Professor of Public Administration. Ph.D. 2014 Portland State University

Eric Einspruch (2010) Ph.D. Adjunct Associate Professor of Public Administration. Ph.D. 1988 University of Miami, Coral Gables

Jason Faler (2007) M.S.J. Adjunct Assistant Professor of Public Administration. M.S.J. 2006 Seton Hall University

Amy Fellows (2012) M.P.H. Adjunct Lecturer of Public Administration. M.P.H. 2001 Portland State University

Linda Golaszewski (1996) M.A. Adjunct Associate Professor of Public Administration. M.A. 1977 University of Illinois

Jo Isgrigg (2009) Ph.D. Adjunct Assistant Professor of Public Administration. Ph.D. 1999 Portland State University

Dennis Morrow (2000) M.B.A. Adjunct Associate Professor of Public Administration. M.B.A. 1986 University of Portland

Judith A. Ramaley (2012) Ph.D. Distinguished Professor of Public Service. Ph.D. 1966 University of California, Los Angeles

Kent Robinson (2004) Ph.D. Adjunct Associate Professor of Public Administration and Senior Fellow in the Center for Public Service. Ph.D. 2004 Portland State University

Michael Wells (1998) M.A. Adjunct Associate Professor of Public

Administration. M.A. 1993 California State University, Dominguez Hills Affiliate Faculty

Deborah Cohen (2014) Ph.D. Affiliate Associate Professor of Public Administration. Ph.D. 1999 Rutgers University.

Sean Gordon (2006) Ph.D.

Affiliate Assistant Professor of Public Administration. Ph.D. 2006 Oregon State University.

Peter Graven (2014) Ph.D.

Affiliate Assistant Professor of Public Administration Ph.D. 2014 University of Minnesota.

Gary Larsen (2008) Ph.D. Affiliate Associate Professor of Public Administration and Senior Fellow in the Center for Public Service. Ph.D. 2008 Portland State University.

Dennis McCarty (2014) Ph.D.

Affiliate Professor of Public Administration Ph.D. 1978 University of Kentucky .

Kenneth McConnell (2014) Ph.D.

Affiliate Associate Professor of Public Administration. Ph.D., 2001 Stanford University.

Rebecca McLain (2014) Ph.D.

Affiliate Assistant Professor of Public Administration. Ph.D., 2000 University of Washington.

Eric Mogren (2011) Ph.D.

Affiliate Associate Professor of Public Administration and Senior Fellow in the Center for Public Service. Ph.D. 2011 Portland State University.

Hal Nelson (2014) Ph.D.

Affiliate Associate Professor of Public Administration. Ph.D., 2006 Portland State University.

Ana Quinones (2014) Ph.D.

Affiliate Assistant Professor of Public Administration Ph.D. 2010 University of Michigan.

Traci Rieckmann (2014) Ph.D.
Affiliate Associate Professor of Public Administration. Ph.D. 2001 University of Utah.

Claudia Vargas (1989) Ph.D.
Affiliate Professor of Public Administration and Senior Fellow in the Center for Public Service. Ph.D. 1989 University of Southern California.

Nohad A. Toulan School of Urban Studies and Planning
Faculty

Naomi Adiv (2014) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2014 City University of New York Graduate Center.

Sy Adler (1981) Ph.D.
Professor of Urban Studies and Planning. Ph.D. 1980 University of California, Berkeley.

Lisa K. Bates (2009) Ph.D.
Director, Center for Urban Studies; Associate Professor of Urban Studies and Planning. Ph.D. 2006 University of North Carolina, Chapel Hill.

Jennifer Dill (2001) Ph.D.
Professor of Urban Studies and Planning; Director, Nohad A. Toulan School of Urban Studies and Planning. Ph.D. 2001 University of California, Berkeley.

Yiping Fang (2011) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2005 University of Colorado at Denver.

Matthew F. Gebhardt (2012) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2009 Columbia University.

Karen Gibson (1998) Ph.D.
Associate Professor of Urban Studies and Planning. Ph.D. 1996 University of California, Berkeley.

Aaron Golub (2015) Ph.D.
Associate Professor of Urban Studies and Planning. Ph.D. 2003 University of California, Berkeley.

Charles H. Heying (1995) Ph.D.
Associate Professor of Urban Studies and Planning. Ph.D. 1995 University of North Carolina at Chapel Hill.

Megan Horst (2015) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2015. University of Washington.

Jenny Hsing-I Liu (2012) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2010 University of California, Berkeley.

Jason R. Jurjevich (2010) Ph.D.
Assistant Director, Center for Population Research and Census; Assistant Professor of Urban Studies and Planning. Ph.D. 2010 University of Arizona.

Loren Lutzenhiser (2002) Ph.D.
Professor of Urban Studies and Planning. Ph.D. 1988 University of California, Davis.

Sheila A. Martin (2004) Ph.D.
Director, Institute of Portland Metropolitan Studies and Center for Population Research and Census; Professor of Urban Studies and Planning. Ph.D. 1992 Iowa State University.

Nathan C. McClintock (2012) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2011 University of California, Berkeley.

Thaddeus R. Miller (2011) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2011 Arizona State University.

Connie Ozawa (1994) Ph.D.
Professor of Urban Studies and Planning. Ph.D. 1988 Massachusetts Institute of Technology.

Gregory R. Schrock (2010) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2010 University of Illinois at Chicago.

Ethan P. Seltzer (1992) Ph.D.
Professor of Urban Studies and Planning. Ph.D. 1983 University of Pennsylvania.

Vivek Shandas (2005) Ph.D.
Associate Professor of Urban Studies and Planning. Ph.D. 2005 University of Washington.

Gerald Sussman (1995) Ph.D.
Professor of Urban Studies and Planning and Speech Communication. Ph.D. 1983 University of Hawaii.

Liming Wang (2012) Ph.D.

Assistant Professor of Urban Studies and Planning. Ph.D. 2009 University of Washington, Seattle.

Richard L. White (1996) Ph.D.
Associate Professor of Urban Studies and Planning. Ph.D. 1996 Portland State University.

Marisa Zapata (2013) Ph.D.
Assistant Professor of Urban Studies and Planning. Ph.D. 2009 University of Illinois, Urbana-Champaign.
Emeriti Faculty

Carl Abbott (1978) Ph.D.
Professor Emeritus of Urban Studies and Planning. Ph.D. 1971 University of Chicago.

Leonard D. Cain, Jr. (1969) Ph.D.
Professor Emeritus of Sociology and Urban Studies and Planning. Ph.D. 1955 University of Texas, Austin.

Nancy J. Chapman (1973) Ph.D.
Professor Emerita of Urban Studies and Planning. Ph.D. 1969 University of California, Berkeley.

Kenneth J. Dueker (1979) Ph.D.
Professor Emeritus of Urban Studies and Planning. Ph.D. 1967 University of Washington.

Don C. Gibbons (1969) Ph.D.
Professor Emeritus of Sociology and Urban Studies and Planning. Ph.D. 1956 University of Washington.

Paul L. Niebanck (1993) Ph.D.
Professor Emeritus of Urban Studies and Planning. Ph.D. 1966 University of Pennsylvania.

William A. Rabięga (1975) Ph.D.
Professor Emeritus of Urban Studies and Planning. Ph.D. 1973 Southern Illinois University.

Anthony M. Rufolo (1980) Ph.D.
Professor Emeritus of Urban Studies and Planning. Ph.D. 1975 University of California, Los Angeles.
Associated Faculty

William P. Macht (1978) J.D.
Adjunct Professor of Urban Studies and Planning. J.D. 1967 University of Virginia Law School.

Edward J. Sullivan (1974) J.D.
Adjunct Professor of Urban Studies and Planning. J.D. 1969 Willamette University.

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