2014-2015 BULLETIN

Information in this Bulletin is accurate as of June, 2014. 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); inquiries 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.

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www.pdx.edu
### ACADEMIC CALENDAR

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<tbody>
<tr>
<td>Graduate admission application priority filing dates for University application</td>
<td>April 1</td>
<td>Sept. 1, 2013</td>
<td>Nov. 1, 2013</td>
<td>Feb. 1</td>
<td>April 1</td>
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<tr>
<td>International admission application priority filing dates</td>
<td>April 1</td>
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<td>April 1</td>
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<tr>
<td>Undergraduate admission application priority filing dates</td>
<td>Dec. 1</td>
<td>Nov. 1, 2013</td>
<td>Feb. 1</td>
<td>May 1</td>
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<tr>
<td>Advance registration begins</td>
<td>May 13</td>
<td>Nov. 12, 2013</td>
<td>Feb. 17</td>
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<tr>
<td>Classes begin (day and evening)</td>
<td>Sept. 30</td>
<td>Jan. 6</td>
<td>March 31</td>
<td>June 23</td>
<td>Sept. 29</td>
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<tr>
<td>Last day to enroll in classes, add a class, or make section changes</td>
<td>Oct. 11</td>
<td>Jan. 17</td>
<td>April 11</td>
<td>varies</td>
<td>Oct. 10</td>
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<tr>
<td>Last day to drop without course recorded as W</td>
<td>Oct. 13</td>
<td>Jan. 19</td>
<td>April 13</td>
<td>varies</td>
<td>Oct. 12</td>
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<tr>
<td>Last day of refund period</td>
<td>Oct. 27</td>
<td>Feb. 2</td>
<td>April 27</td>
<td>varies</td>
<td>Oct. 26</td>
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<tr>
<td>Last day to make changes in grading option</td>
<td>Nov. 17</td>
<td>Feb. 23</td>
<td>May 18</td>
<td>varies</td>
<td>Nov. 16</td>
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<tr>
<td>Last day to withdraw from a class</td>
<td>Nov. 17</td>
<td>Feb. 23</td>
<td>May 18</td>
<td>varies</td>
<td>Nov. 16</td>
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<tr>
<td>Final examinations</td>
<td>Dec. 9-14</td>
<td>March 17-22</td>
<td>June 9-14</td>
<td>varies</td>
<td>Dec. 8-13</td>
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<tr>
<td>Term ends</td>
<td>Dec. 14</td>
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<td>June 14</td>
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<tr>
<td>Commencement</td>
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<td>Holidays</td>
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<td>July 4</td>
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<td>Nov. 28-29</td>
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<td>Nov. 27-28</td>
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1. Consult specific academic department for information on departmental deadlines and procedures for admission.
2. Students who apply after the priority filing dates will be considered for admission if complete application documents are submitted with sufficient time to evaluate transcripts, obtain student visas and enroll for classes. Late applicants have limited scholarship opportunities.
3. Advance registration beginning dates are tentative. Refer to the annual Registration Guide or www.pdx.edu/registration for information on registration dates, deadlines and procedures.
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 29,000, Portland State is selected by more students than any other Oregon University. 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 2013 guidebook.

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 is growing. 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 GIs 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.

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**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 Oregon’s largest university.

“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.”

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.


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 IIc, and one additional subject test of the student’s choice). An examination in a second language is strongly recommended to qualify the applicant for admission by meeting the language proficiency requirements. Students who do not take an SAT Subject test in a second language must prove language proficiency through another approved process.

2. **Subject requirements.** 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 nonrelease 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. Copies of the full Student Records Policy are available from the Office of Student Affairs and the Office of the Registrar or 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 duplicated or returned to a student.

Release of student information
The privacy policies do not permit the University to discuss a student’s educational information with anyone other than the student. All inquiries must originate with 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 incompletes, grade changes, changes to degree posting, or other changes to an academic record cannot be made.

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.

An undergraduate student should enroll for an average of 15 credits per term in order to be graduated within the normal 4 years/12 terms. Employed students should make sure they are not overloading themselves. They may want to plan to spend more than 12 terms to complete degree requirements. Undergraduate students desiring to take more than 21 credits must obtain approval as follows:

22-25 credits: Obtain approval of adviser on Consent for Overload form online at www.pdx.edu/registration/forms or from the Registration window, Neuberger Hall lobby.

26 or more credits: Petition to Academic Requirements Committee. Forms are available online at www.pdx.edu/registration/forms or from the registration window, Neuberger Hall lobby. Such petitions must be submitted by the last day to pay without a late fee.

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

<table>
<thead>
<tr>
<th>Acceptable status</th>
<th>Credits completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>1-44</td>
</tr>
<tr>
<td>Sophomore</td>
<td>45-89</td>
</tr>
<tr>
<td>Upper-division</td>
<td>90 or more</td>
</tr>
<tr>
<td>standing</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td>90-134</td>
</tr>
<tr>
<td>Senior</td>
<td>135 or more</td>
</tr>
<tr>
<td>Postbaccalaureate</td>
<td>Hold a degree from an accredited college or university</td>
</tr>
</tbody>
</table>

Appeals and grievances
Grievances and requests for exceptions to University policies and requirements may be filed with committees which 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**

This committee develops policies and adjudicates petitions regarding academic regulations such as credit loads, transfer credit, and graduation requirements for all undergraduate degree programs. It also develops and recommends policies and adjudicates student petitions regarding initial undergraduate admissions, including entering freshmen. Petition forms may be obtained online here.

**Deadline Appeals Board**

A student may petition this board to be exempted from published registration deadlines for the current term. 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 develops and recommends academic standards to maintain the integrity of the undergraduate program and academic transcripts of the University; develops, maintains and implements protocols regarding academic changes to the undergraduate transcript; reviews and rules 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 adjudicates student petitions for academic reinstatement to the University. Conferral of an accredited Associate’s or Bachelor’s degree constitutes automatic reinstatement to the University. An official copy of a transcript with degree posted must be 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. You may also pick up both petition forms 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.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/academic-calendar. The 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. 29). 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 (probably an X) 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 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 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 add the student 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 pre-requisites for admission to graduate school, or take other academic credit. PSU students who have completed an undergraduate degree who wish to complete a second undergraduate degree or take 9 or more credits during fall, winter or spring terms or more than 21 in the summer, must be admitted to postbaccalaureate status. Postbaccalaureate students are subject to the same academic policies as undergraduates.

Senior Citizen Enrollment

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

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

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

Veterans Services and 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. If you have submitted all transcripts from all previously attended schools to the Admission Office, they will be accessible to the VA School Official. In this case, you do not need 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 Services Office in 104 NH. 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 veteran’s certification section 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:

<table>
<thead>
<tr>
<th>Certified for:</th>
<th>Undergraduate:</th>
<th>Graduate:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time</td>
<td>12 credits</td>
<td>9 credits</td>
</tr>
<tr>
<td>Three-quarter time</td>
<td>9 credits</td>
<td>7 credits</td>
</tr>
<tr>
<td>One-half time</td>
<td>6 credits</td>
<td>5 credits</td>
</tr>
</tbody>
</table>

The cumulative GPA at Portland State University required to maintain satisfactory progress is 2.00. 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.

For reporting purposes, the last date of attendance is the same as the date of official withdrawal from class or classes, date of student notification of a change in credits to the Veterans’ certification office, or the date of determination of unsatisfactory progress, whichever is earliest. This date determines the amount of overpayment, if any, incurred by a student not maintaining satisfactory progress standards.

Courses may be dropped during the drop periods, but student veterans are still responsible for reporting any changes in credits which affect the rate of VA certification. The number of credits completed is checked against the number of credits for which the veteran is certified each term by the Veterans’ certification office.

Failure to maintain satisfactory progress standards at Portland State University will result in the termination of G.I. benefits.

**Deployment policy**

PSU follows the Oregon University System Military Duty Refund Policy which states that “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.

**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

Entering and continuing students at Portland State University should plan their study programs and work loads 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. However, no change made after a term begins will become effective within that term.

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 on the web at www.pdx.edu.

A regular student is defined as a resident or nonresident undergraduate, postbaccalaureate, or graduate student enrolled for 9 credits or more. A regular student is entitled to use the resources of the University, including the Library, the Health Service, and use of the student recreation center. A regular student is also entitled to admission to PSU home athletic events (with the exception of playoff games and social events) and coverage by a basic health insurance plan. No reduction in the total charge is made to those students who do not intend to use specific resources or services. All regular students are required to be currently admitted to the University and will be assessed tuition and fees based on student level.

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; however, students taking 5-8 hours will be billed health services as part of their tuition and fees. Residency and admission requirements are waived for students in this category.

All students registered for coursework on or after the first day of the term have a financial obligation in the form of an accounts receivable. The financial obligation is the maximum load enrolled after the start of the term.

All tuition and fees may be paid at the Cashier Windows located in Neuberger Hall lobby, or in accordance with the instructions received with the monthly billing statement. Specific deadlines are available at www.pdx.edu. Tuition and fees must be paid in full each term. At the start of each term, students can choose to pay the balance in full or opt-in to the PSU Payment Plan by the due date. After the due date students with a balance will be automatically enrolled in the Payment Plan and incur a fee. Additional information is available at www.pdx.edu/financial-services/payment-plans.

Tuition and fee schedules/Regular tuition schedule

Students should consult the tuition and fee listing at www.pdx.edu/financial-services/tuition-fees for up-to-date information and applicable tuition and fees.

Students who enroll incur an accounts receivable obligation and 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. Students are required to pay for any tuition, fees and charges remaining on their account.
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 Accounts Department, 179 Neuberger Hall, 503-725-3440.

Terms and Conditions


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 nonrefundable health insurance will be deducted before calculating the refund amount.

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 must be approved by the department head and dean of Graduate Studies. GAs are responsible for paying the Building, Health, Incidental, and Technology fees.

This schedule of tuition and fees is determined by the Portland State Board of Trustees. No reduction in the total charge is made to those students who do not intend to use specific resources or services. Fees are subject to change.

Self-support courses have fees that are assessed in addition to any other tuition paid to the University.

Students may access their individual financial account balances on the Web at www.pdx.edu.

Withdrawals and fee refunds

Complete withdrawal or dropping one or more classes can be accomplished before classes begin via Web access with a 100 percent reversal of charges. After classes begin, withdrawals and class drops are accomplished via Web access, or Special Registration Form at the Registration windows in the Neuberger Hall lobby, with the applicable tuition percentage charge remaining due and payable.

Refund consideration is automatic; no special request is necessary.

Fees for the purchase of a student health insurance plan are nonrefundable. Refunds of special course fees must be approved by departments. Art, speech, and music special activity course fee refunds are subject to the schedule for complete withdrawal listed on this page.

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.

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.

Refund schedule for complete or partial withdrawal

Prior to the second week of the term, students receive a 100 percent refund; in the second week of the term, students receive a 70 percent refund; in the third week of the term, students receive a 40 percent refund; and in the fourth week of the term, students receive a 20 percent refund.

There is no refund after the close of the 28th calendar day following the start of classes. This schedule applies to all students, whether making a complete withdrawal or just reducing hours. The appropriate percentage is applied to the difference between the initial official tuition and fees figure and the figure applicable to the reduced load.

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/withdrawal/

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 the periods of deferment, and any authorized deferment periods. The federal government has set loan limits: $2,000–$4,000 for the first academic year of undergraduate study (up to 44 credits); $2,000–$5,500 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 $26,250 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/oaa

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.

Credit by Examination

Undergraduate students may obtain Credit by Examination in four basic ways:

• Examinations in Portland State University courses approved for Credit by Examination and administered by Portland State departments or schools.
• Examinations approved by Portland State and available through the College-Level Examination Program (CLEP).
• Advanced Placement Program.
• International Baccalaureate.

I. Portland State University Credit by Exam

Eligibility Requirements for PSU Credit by Examination

1. Students must be formally admitted to Portland State, and
2. Be currently registered or have completed one Portland State course.

Guidelines governing PSU Credit by Examination

1. Not all courses in all departments are open to challenge. Each academic unit decides which of its courses are available to undergraduates for credit by examination. The determination by the department is final. No courses numbered 199, 299, 399, or 401 to 410 inclusive are eligible for credit by examination.

2. Students should contact the appropriate departments, college, or schools to determine the availability of particular courses for credit by examination.

3. The examinations administered vary according to the departments, college, or schools which administer them, and may include midterm and/or final examinations in current courses or special examinations designed for students “challenging” courses whether or not the courses are currently being offered.

4. Credit earned by examination may not be received in a course which:
   a. Duplicates credit previously earned by a student, or
   b. Is more elementary, as determined by departmental, college, or school regulations, than a course in which the student has already received credit.

5. A student may attempt to acquire credit by examination only once for any course.

6. A student who has taken but not passed a course may subsequently attempt credit in that course by examination. Only one such attempt is permitted. In the event of failure, results will not be recorded on a
student’s academic record. Should an examination not be passed, credit can be obtained by repeating the course.

7. Credit by Exam uses Pass/No Pass grading.

8. Credit by examination does not count toward residence credit.

9. Credit by examination is not governed by the GPA Repeat Policy.

**Application for PSU Credit by Examination and cost**

1. Students wishing to take examinations for Portland State courses may obtain an application with detailed instructions from the Office of the Registrar (Neuberger Hall lobby).

2. The fee for credit by examination is currently $80 per course examination. Fee subject to change.

**II. CLEP Examinations**

The College Level Exam Program (CLEP) offers nationally normed examinations that assess college level learning in both specific subject/disciplinary areas, as well as general learning. Once a student has been admitted and enrolled at PSU, the university will award college level credit for approved exams, based on students earning specific, minimum scores. The list of approved exams, along with the required exam scores and credit amounts awarded can be found at [www.pdx.edu/admissions/college-level-exam-program](http://www.pdx.edu/admissions/college-level-exam-program).

In order to be awarded credit at PSU, students must request an official CLEP transcript be sent to the Office of Admissions, Portland State University, PO Box 751, Portland, OR 97207-0751.

Learn more about CLEP and download the transcript request form from the CLEP website at [http://clep.collegeboard.org/about/score](http://clep.collegeboard.org/about/score). Send requests for CLEP transcripts to CLEP Transcript Request Services, P.O. Box 6600, Princeton, NJ 08541-6600. Phone: 800-257-9558 (8 a.m. to 6 p.m., ET, Monday-Friday). Military personnel should call 877-471-9860 (toll free) or 651-603-3012, or visit [http://clep.collegeboard.org/military](http://clep.collegeboard.org/military) to order a military transcript.

**Where to apply for CLEP Examinations**

Students planning to take CLEP examinations should apply for them at least one month in advance with Testing Services in PSU’s Center for Student Health and Counseling (SHAC), or with other recognized CLEP testing centers. SHAC Testing Services also supplies information and administers CLEP examinations to non-admitted or non-enrolled students. In addition to the CLEP examination fee, Testing Services also charges a non-refundable registration fee. Each fee is paid separately and is subject to change. For more information on taking CLEP exams with SHAC Testing Services, please see [www.pdx.edu/shac/testing-clep](http://www.pdx.edu/shac/testing-clep).

**Relation between CLEP, Advanced Placement (AP), and International Baccalaureate (IP) Programs**

Students cannot acquire duplicate credit through CLEP in the subjects for which they have acquired AP or IB credit. CLEP credit may be a good alternative for students who come from high schools not offering AP or IB programs.

**III. Advanced Placement Program**

Students who complete college-level work in high school under the Advanced Placement Program sponsored by the College Entrance Examination Board and who receive creditable scores in examinations administered by that board may, after admission to PSU, be granted credit toward a bachelor’s degree in comparable college courses. Students may request their official transcript online using their College Board account at apscores.org, or by mailing a signed, written request to AP Services, PO Box 6671, Princeton, NJ, 08541-6671. Students who took the AP more than four years ago, must use the Archived AP Scores Request Form found at [https://apscore.collegeboard.org/scores/score-reporting](https://apscore.collegeboard.org/scores/score-reporting).

**Credit awarded for Advanced Placement**

The amount of credit a student may receive for Advanced Placement Examinations and the scores required for the award of credit vary according to department and may be found in the AP Table at [www.pdx.edu/admissions/advanced-placement-program](http://www.pdx.edu/admissions/advanced-placement-program). The amount of credit and the exact course equivalency is determined by the PSU department. Important: Any student with a score of four or five (or three in mathematics) must arrange an interview with the department chair for purposes of further guidance.

**IV. International Baccalaureate**

Students who complete college-level work in high school under the International Baccalaureate (IB) program administered by the International Baccalaureate Organization may be granted credit towards a bachelor’s degree in comparable courses. Credit for IB examinations is awarded only for a score of 5 or higher. Students enrolling at Portland State who earn their IB diploma with a total score of 30 or above will receive a total of 45 college credits and sophomore class standing. Information regarding credit awards may be found in the IB Table at [http://www.pdx.edu/admissions/international-baccalaureate](http://www.pdx.edu/admissions/international-baccalaureate).
Students can submit their official IB transcript to PSU by speaking with their IB Diploma Programme coordinator prior to July 5th of their examination year, or by visiting http://www.ibo.org/informationfor/alumni/transcripts/ to make an online request, or download a transcript request form.

Degree Requirements
To earn a baccalaureate degree a student must complete (1) University requirements, (2) University Studies - General Education requirements, (3) the Writing Requirement, (4) specific requirements for the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Science Degree, and (5) requirements for a major.

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

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 pre-requisites for admission to graduate school, or take other academic credit. PSU students who have completed an undergraduate degree who wish to complete a second undergraduate degree or take 9 or more credits during fall, winter or spring terms or more than 21 in the summer, must be admitted to postbaccalaureate status. Postbaccalaureate students are subject to the same academic policies as undergraduates.

1. General University Requirements: GPA, Credits and Limitations
Minimum number of credits, including lower-division plus upper-division (some programs require more than 180 credits) 180

Minimum number of upper-division credits (300 and 400-level) 72

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

Residency Credit: 45 of the final 60, or 165 total must be taken at PSU.
(Restrictions: PSU Exam credit and Credit for Prior Learning Credit are excluded.
At least 25 of the last 45 credits must be for differentiated grades.)

Maximum number of credits transferred from regionally accredited two-year institutions 124

Maximum number of correspondence credits 60

Maximum number of credits graded P (Pass) that may apply to a degree 45
(This does not include credits with Pass grades accepted for transfer from institutions that do not offer differentiated grades.)

Maximum number of Credit for Prior Learning credits that may apply to a degree 45

Maximum number of Physical Education activity credits that may apply to a degree 12

Maximum number of Cooperative Education credits that may apply to a degree 12

Maximum number of English as a Second Language (ESL) credits that may apply to a degree 24
(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.)
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.

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

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

* **Freshman Inquiry.** 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

* **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.

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;

  • 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. (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:

  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.
• 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 in effect for the 2012-13 catalog. Students admitted prior to Fall 2012 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 program of art practices as prescribed by the Department of Art.

• For the Bachelor of Music degree: Students must complete the program of music and applied music 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, 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, Criminal Justice (CCJ 220 and CCJ 330 only), Economics, Geography, 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 receive two different Bachelor’s degrees in two different major programs at the same time 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 2014-15 catalog requirements will expire at the end of summer term 2021.

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, 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. Applicants should contact Clackamas Community College at 503-594-6100, Clark College at 360-992-2058, Clatsop Community College at 503-338-2411, Mt. Hood Community College at 503-491-6422, Portland Community College–Sylvania at 971-722-4519, Chemeketa Community College at 503-589-7652, or the PSU Office of Admissions at 503-725-3511 for more information.
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. 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.

National Student Exchange Program

Portland State is a member of the National Student Exchange Program, which enables sophomores, juniors, and seniors to attend one of 174 institutions in other areas of the nation for up to one academic year. Students pay in-state tuition at host school or current PSU tuition. Call 503-725-3511 or go online to www.pdx.edu/admissions/national-student-exchange for information.

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.

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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>B</td>
<td>3.67</td>
</tr>
<tr>
<td>C</td>
<td>3.33</td>
</tr>
<tr>
<td>D</td>
<td>3.00</td>
</tr>
<tr>
<td>F</td>
<td>2.67</td>
</tr>
<tr>
<td>P</td>
<td>2.33</td>
</tr>
<tr>
<td>NP</td>
<td>2.00</td>
</tr>
<tr>
<td>W</td>
<td>1.67</td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
</tbody>
</table>

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
I—Incomplete
IP—In Progress (UnSt 421 only)
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.

Incompletes
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.

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, incompletes awarded in fall term 2006 or later 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. 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, 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.

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 (formerly Undergraduate Advising and Support 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 last 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 Academic Standing is administered by the Office of Graduate Studies. See the Graduate Studies section of this Bulletin (p. 37) for policy details.

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.

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.

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.

Graduation and Commencement Application Process
Graduation
Graduation means that a student has been certified by the University as having met all degree requirements. Certification may take up to 4 weeks after final term grades are posted. At that time the degree is entered on the graduate’s transcript. The degree statement on the transcript serves as evidence of degree awards.

Receiving Diplomas
Diplomas are generally available at the end of the term following the graduation term. All degree recipients are notified by mail when diplomas are available, either for office pick-up or mailing.

Filing an Application for Degree
503-725-3511
To earn a degree, students must be admitted to PSU and file an application for degree with the Degree Requirements unit within the Office of the Registrar. The undergraduate degree application form is online at www.pdx.edu/registration/forms. The deadline to file the undergraduate degree application is at the end of the second week of the term immediately preceding the graduation term. Example: If graduating at the end of spring term, the undergraduate application must be submitted by the end of the second week of winter term.

The deadline to submit a graduate degree application is at the end of the first week of the graduation term.

Students are encouraged to meet with their academic advisers to review their progress towards a degree prior to submitting a degree application. General University degree requirements are certified by the Degree Requirements unit in the Office of the Registrar, 104 Neuberger Hall. Final approval of the requirements for the major rests with the department, college, or school offering the major program. Students bear final responsibility for ensuring that they have taken all courses required to complete their degree/major requirements. All University degree, general education, and major requirements must be satisfied before a degree will be awarded.

Commencement is a celebration! It is a ceremony for students, their families, friends, and the PSU community to commemorate their academic achievements. Except for doctoral students (who must be certified by the Office of Graduate Studies to participate), the commencement ceremonies are open to students who have applied for degree clearance and have registered for the commencement ceremony within the specified deadlines. Participation in commencement does not mean that a student has graduated, nor do students receive diplomas on that day.

Portland State has a formal cap-and-gown ceremony at the end of spring term.

To register for the commencement ceremony please visit www.pdx.edu/commencement. An application for degree must be filed with the Office of the Registrar prior to registering for the ceremony.

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 officers and soldiers, NCOs (non-commissioned officers, i.e. sergeants), and officers.

Military History – Military activity has been a constant process over thousands of years, and the essential tactics, strategy, and goals of military operations have been unchanging throughout history.
Military Geography – Military geography encompasses much more than protestation to take the high ground, it studies the obvious, the geography of theatres, also the additional characteristics of politics, economics, and other natural features of locations.

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

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

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

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

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

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

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

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

• Be between 18 and 30 years old. Age waiver may be granted up to age 35 by the Adjutant General or Commanding General of the State or Territory you reside in. (NGB-ARH Memo #06-11)
• Be a U.S. citizen.
• Be a member of the Army National Guard, Army Reserves or completed MS 100/200 level classes or attended LTC (Leadership Training Course) during the summer of your sophomore year.
• Be in good health as evidence 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.

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 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.

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.

University Studies

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

Please see University Studies (general education) baccalaureate requirements (p. 26).

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.
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 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
- $50 application fee
- Recommendation for admission from the appropriate graduate program

International applicants must also submit:

- Official degree certificate/diploma
- Evidence of English language proficiency; for details about minimum required scores see the Graduate English Language Proficiency Requirements
- Financial documentation demonstrating adequate financial support for at least the first year of study

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**

PSU requires 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
- $50 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 be considered pre-admission credit to which all pre-admission limits and requirements apply. See Pre-admission and transfer credit (p. 41) 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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
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<tr>
<td>C</td>
<td>2.00</td>
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<tr>
<td>C-</td>
<td>1.67</td>
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<td>D+</td>
<td>1.33</td>
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<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
</tbody>
</table>

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 Registration and Records within one year (e.g., by the end of fall 2014 for a course registered for fall 2013).

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.

Courses taken more than once on an audit basis cannot be repeated for graduate credit. 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 2014-15 Bulletin can be used through summer 2021 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 (see below), 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, to meet the residency requirement a student must register for and satisfactorily complete a minimum of three consecutive terms in full-time residence (minimum 9 graduate credits applicable to the degree program each term) after admission to the doctoral program at PSU.

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's degree program. For master’s degrees, pre-admission
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 a GO-11GC form (contact OGS for this form). Although pre-admission limits do not apply, reserved credit (p. 42) 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. 42) 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. 43) 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 (p. 43).

**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. A GPA of at least 3.00 in all graduate work taken subsequent to admission to the PSU graduate program is a prerequisite for re-enrollment.

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 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 Admissions Office 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. The Graduate Policy on Academic Honesty and Integrity 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. Academic honesty is a requirement for all graduate activities. Any violation of academic honesty and integrity is grounds for academic action. In addition, a student found in violation of this policy may be subject to disciplinary sanction as provided in the University Student Conduct Code.

Violations of the policy 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 pay resident fees: 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. Each graduate certificate program is approved by the Graduate Council and the Faculty Senate with a minimum number of credits and a specific set of courses which must be completed; 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.

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. 44) 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 510/610 courses in graduate certificates. A maximum of one 510/610 course is allowed per student, per program, and a 510/610 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 carry no graduate credit.

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 2007 will be beyond the seven-year limitation at the close of fall term 2014).

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. 42) 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 $25 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. 38).

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. 41) and Reservation of coursework for graduate credit (p. 42) 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 carry no graduate credit. 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.

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 2007 will be beyond the seven-year limitation at the close of fall term 2014).

**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 $25 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 $25 fee).

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.

**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 2004 may be validated for a graduation term no later than fall 2014). 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 one 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 one 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, shall be 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

A minimum of three consecutive terms must be spent in full-time residence, with registration for and successful completion of 9 or more graduate credits applicable to the degree each term, after admission to the doctoral program at PSU. Summer term may be included (e.g., spring, summer, fall 2014) or excluded (e.g., spring 2014, fall 2014, winter 2015) in calculating consecutive terms.

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 is required (equivalent to 81 quarter credits minimum) 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 carry no graduate credit. 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.
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 one 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 publically 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. 38) 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.

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.
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. If the student has not satisfied the residency requirement by the time of advancement to candidacy, a plan for doctoral residency must accompany the program’s recommendation for advancement. 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 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 interpreting 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 one 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 $25 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 $25 fee).

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.

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/cpso

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

The Gold LEED certified Student Recreation Center, home to Campus Rec, is located in the heart of campus in the ASRC (Academic and Student Rec Center) right off the Urban Plaza. Designed to be accessible and sustainable, the facility includes more than eighty pieces of cardio equipment, over one hundred pieces of weight training equipment, a thirty-two foot climbing wall, a six-lane lap pool, ten-person spa, three exercise and activity rooms, two wood-floor courts, one indoor multi-sport court, an elevated running track, two locker rooms, two universal changing rooms with showers, an equipment checkout offering a full menu of items for use throughout the facility, and an Outdoor Program complete with an equipment rental center. Also offered is a range of services that includes towel use and locker rentals, personal training, certification courses and over sixty complimentary drop-in fitness classes. Students are automatically members of the Rec Center and the facility is accessible with a government-issued photo ID.

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

The aquatics center includes a 6-lane 25-yard pool and a 10-person spa and is located on the second floor of the Academic and Student Rec Center. The Aquatics program offers lap swimming, open swimming, swim clinics for adults, youth swim lessons and youth swim hours, events, safety courses such 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

A flexible fitness program was designed to be especially convenient for Portland State students who want a simple way to stay healthy on their own schedule. Offering over 60 complimentary drop-in Group X fitness classes, an affordable personal training program, access to a weight room with over 100 pieces of equipment, a diverse cardio suite with over 80 pieces of equipment, an indoor track, and inclusive health promotions in the fall, winter, and spring, there is access to health and wellness resources for everyone. Additionally, certification courses such as group fitness and personal training courses are also offered throughout the year.

Inclusive Rec and Community Service
503-725-2927
www.pdx.edu/recreation/inclusive-rec

Campus Rec’s intention is to be fully inclusive and provide a variety of accommodations for equal access to all programs as well as the facility. Inclusive Rec programs are for any persons wanting to try an activity in a modified way. Programs can be adapted for those with permanent or temporary disabilities, mobility barriers, rheumatic and other illnesses, or injuries.

Some programs offered through the Inclusive Rec program include inclusive outdoor trips, adaptive climbing and swimming, wheelchair sports such as wheelchair basketball, goalball, open inclusive rec time, youth events for all PSU community members, and community service opportunities.

Intramurals and Special Events
503-725-5647
www.pdx.edu/recreation/intramurals

Intramural Sports provide Rec Center members an opportunity to participate in various sports leagues, tournaments, and events. It is a great opportunity to get involved on campus, make new friends, and exercise in a safe, fun environment. Seasonal sports leagues are offered for both competitive and recreation leagues. One-day tournaments and other events are also offered throughout the year. Sports leagues take place inside the Rec Center and at Stott field.

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

Since 1966, the Outdoor Program has been helping students find ways to access and enjoy the outdoors. For either a day of relaxation or an intensive skills-development seminar, we invite you to join us in exploring the wild side of Oregon. The Outdoor Program offers seasonal single and multi-day trips for hiking, biking, backpacking/camping, kayaking, rafting, climbing, snowshoeing, paddle boarding, snorkeling, and more. They also offer an equipment rental center with outdoor gear at affordable rates, seminar and certification courses in Wilderness First Aid, free skills workshops, a resource library, a volunteer program that develops the leadership and outdoor skills for trip leaders, and more. Additionally, the Outdoor Program manages the 32 foot climbing wall
located inside the Rec Center on the third floor and offer climbing trips, climbing classes, and climbing events and competitions.

**Rec Clubs**
503-725-2938  
www.pdx.edu/recreation/outdoor-program

Portland State Rec Clubs is a student-led program representing different sports, games, and physical activities. Rec Clubs are organized by students and funded by student fees. We encourage participation by providing opportunities for recreation and intercollegiate competition between students of all skill levels. Rec clubs strive to embody all the values of Campus Recreation by being community oriented, safe, sustainable, diverse, accessible, and educational. Over 31 recreational and competitive clubs are offered for students to join and include women’s only, men’s only, and co-ed clubs.

**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 Sprint 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. Student 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.

**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; provide a student-centered inclusive environment that enriches the university experience; and engage families and the community.

This office administers scholarship programs, provides general advising, advocacy, and counseling. Programs include the following TRiO programs: Student Support Services, Upward Bound, and Educational Talent Search. Students are also served through the Diversity Scholarship Programs, African American Student Services, Latino Student Services, and Native American/Alaskan Native Student Services. Three student cultural centers - the Native American Student and Community Center, La Casa Latina, and the Multicultural Center – 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.

Educational Talent Search
Educational Talent Search
633 S.W. Montgomery
503-725-4458
www.pdx.edu/ubets

Educational Talent Search is a college access and retention program sponsored by Portland State University, and funded through the U.S. Department of Education. Educational Talent Search serves students in the Portland and Hillsboro School Districts. This early intervention program helps young people to better understand their educational opportunities and options.

Enrollment Management and Student Affairs
Enrollment Management and Student Affairs
345 Cramer Hall
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
diversity@pdx.edu

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 Objectives include:

1. Assess and enhance the university climate to support and advance diversity and inclusion. 2. Increase recruitment and representation of diverse students, faculty and staff throughout the university. 3. Implement a comprehensive program to enhance retention, advancement and engagement of diverse communities at PSU. 4. Develop and implement standards to ensure responsibility and accountability for achieving PSU’s diversity, multiculturalism, cultural competency and affirmative action related goals and objectives.

2. Enhance community collaborations and business partnerships designed to engage diverse communities in teaching, research and community outreach. 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
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
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
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 Center
Information Center/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 Technologies
Information Technologies
Smith Memorial Student Union
1825 SW Broadway
Suite 18
503-725-HELP
www.pdx.edu/oit/
help@pdx.edu

The Office of Information Technologies (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, sending email, visiting the OIT website, or visiting the Help Desk.

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
Learning Center
University Library, 2nd Floor
503-725-4448
www.pdx.edu/tutoring

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.

Multicultural Center
Multicultural Center
Smith Memorial Student Union
1825 SW Broadway
Suite 228
Portland, OR 97201
503-725-5342
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
503-725-3511
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
- 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

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

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

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

Student Activities and Leadership Programs

Student Activities and Leadership Programs (SALP) provides student with the opportunity to join, create, and/or participate in student organizations. SALP facilitates cross-campus leadership trainings and conferences. SALP supports the Portland State Programming Board, the student-run program which organizes large-scale, traditional campus events.

SALP formally recognizes over 150 student organizations ranging in a diverse array of interest areas, including academic, honorary, arts and industry, Greek life, multicultural, political, service and advocacy, spiritual and student government. Participating in a student organization is the perfect way to gain out-of-class experience, to apply academic learning, and to connect to campus. For a complete listing of recognized organization and what they are doing, please visit the SALP Web site. Staff is available to help students find ways to connect, to help create new student organizations, and to provide resources, advising, and training to current student leaders.

Portland State Programming Board

Promotes community, pride and tradition through student-initiated cross-campus events. The Portland State Programming Board offers free events to the whole PSU student community as well as volunteer opportunities.

Student Government—ASPSU

Student Government - ASPSU provides student with the opportunity to join, create, and/or participate in student organizations. ASPSU facilitates cross-campus leadership trainings and conferences. ASPSU supports the Portland State Programming Board, the student-run program which organizes large-scale, traditional campus events.

SALP formally recognizes over 150 student organizations ranging in a diverse array of interest areas, including academic, honorary, arts and industry, Greek life, multicultural, political, service and advocacy, spiritual and student government. Participating in a student organization is the perfect way to gain out-of-class experience, to apply academic learning, and to connect to campus. For a complete listing of recognized organization and what they are doing, please visit the ASPSU Web site. Staff is available to help students find ways to connect, to help create new student organizations, and to provide resources, advising, and training to current student leaders.
All students registered for at least one credit are members of the Associated Students of Portland State University (ASPSU). The ASPSU advocates for students’ interests, officially represents students before internal and external bodies, 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

Student Community Engagement Center
Smith Memorial Student Union
Suite M113C
1825 SW Broadway
Portland, Oregon 97201
(503) 725-8132
http://www.pdx.edu/student-leadership/student-community-engagement-center
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 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
http://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: auto accidents, bankruptcy, consumer issues, criminal and 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 – 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.

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 and 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.

### Upward Bound

**Upward Bound**  
633 S.W. Montgomery  
503-725-4010  
www.pdx.edu/ubets

Upward Bound, a college preparation program for high school students, has been hosted at Portland State University since 1976. 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.

### 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 self-identified women, and by working toward a safe and healthy campus. The Women’s Resource Center is open to students of all genders.

### 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.
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.

Safe Campus Module

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

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

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

Creating a Culture of Respect Module

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

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

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 though 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.
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 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 courses in elementary schools and institutions of higher education, teacher training and testing for Chinese language, academic programs related to Chinese culture and contemporary China and scholarships for Chinese and Oregon students.

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.

Institute for Asian Studies

Director: Sharon Carstens
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
318 East Hall, 503-725-4074
www.pdx.edu/middle-east-studies

The Middle East Studies Center at Portland State University promotes understanding of the people, cultures, languages and religions of the Middle East. As a National Resource Center for Middle East Studies under the U.S. Department of Education’s Title VI program, 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. The Middle East Studies Center supports academic conferences, workshops, cultural events, lectures, and a resource library.

The Middle East Studies Center started in 1959 as the first federally supported undergraduate program for Arabic language and Middle East area studies in the nation. Portland State’s Middle East studies curriculum includes foreign language courses in Arabic, Hebrew, Turkish and Persian as well as area studies courses in a number of disciplines. The Middle East studies program boasts a distinguished faculty and vast library resources.

MESC works with PSU’s Contemporary Turkish Studies Program and the Harold Schnitzer Family Program in Judaic Studies. Nationally, MESC belongs to Middle East-related organizations that expand opportunities for faculty and students.

Academic options in Middle East Studies:

- Bachelor of Arts degree in international studies with a concentration in the Middle East.
- Bachelor of Arts degree in Arabic language & literature.
- Certificates in Middle East Studies and Contemporary Turkish Studies complement a Bachelor of Science or Arts degree in any other PSU degree program.
- Minors in Arabic language, Persian language, Turkish language and Judaic Studies.
- Study of Arabic, Hebrew, Kurdish, Persian, and Turkish languages.
- Study abroad in Egypt, Israel, Jordan, Morocco, Turkey, and the United Arab Emirates.
Branford Price Millar Library’s largest specialized collection is the substantial Middle East vernacular holdings, a nationally recognized resource owing its existence to the federal Foreign Language and Area Studies Acquisition Program, augmented through private donations over the years. The collection includes a number of rare books and is available to the public through local and internet online access.

Several scholarships are available to students in support of Middle East language and area studies, including: Foreign Language & Area Studies (FLAS) fellowships, the Aspen Mitzvah Fund Scholarship, the Joseph & Takla Azar Scholarship for Arabic Studies, the Frank & Margaret Bitar Scholarship, the Elizabeth Ducey Scholarship, the Noury & Lamia al-Khaledy Scholarship for Arabic Studies, the Patricia & Gary Leiser Scholarship in Middle East Languages, and the Hanna & Wardah Sbait Scholarship for Sung Poetry and Folk Songs.

Community Outreach
The Middle East Studies Center promotes a critical understanding of the Middle East through engagement with K-12 schools and educators, local and regional community groups, non-governmental organizations, government agencies, media, businesses, and the general public. Drawing on the knowledge, expertise, and experience of the University community, MESC programming reflects the diversity of the region and provides insight into the histories, cultures, languages, religions, politics, and contemporary issues of the Middle East.

IE3: Global Internships
Advisor: Alyse Collins
205 East Hall, 503-725-8256
http://ie3global.ous.edu

The IE3 Global Internship program, administered by the Oregon University System, 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 on the IE3 Web site: 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 assistance 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.
- Administration of the summer International Visiting Professor (IVP) program. 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 in
the Department of Applied Linguistics, University Center
Building Suite 400, 503-725-4088 or esl@pdx.edu.

International Special Programs

Director: Jeff Baffaro
503-725-4181

International Special Programs (ISP) provides 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
academic bridge programs for international students at
PSU. WTP offers tracks in Business Administration,
International Studies, and Health & Sustainability. 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 the Oregon University System (OUS) and
educational associations such as the Council on
International Educational Exchange (CIEE), School for
International Training (SIT), and IFSA-Butler.

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 five 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 teacher exchange programs.

**Grants for Graduate Study Abroad and Alumni**

Fulbright opportunities are announced annually about May 1, and applications should be prepared as soon as possible. The deadline for submission of application materials to the Fulbright adviser is September 8, 2014 for the 2015-2016 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.

**Opportunities Abroad for Teachers**

Institute for International Education sponsors teaching positions abroad and summer seminars for teachers and professors through its Opportunities Abroad for Teachers program. Interested persons should apply by October 15 directly to the following website: www.fulbrightteacherexchange.org. Interviews for Oregon-area applicants are arranged by the Fulbright director at PSU and are held in early December.

**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.
The University Library provides an extensive array of user-centered information services and resources and delivers a strong instruction program dedicated to improving students’ academic success. The electronic collections, available at the Library’s Web site, include thousands of academic library resources like full text journal articles, books, and reference databases—all available online anytime and anywhere. A wealth of library resources and services are located at the Branford Price Millar Library, located on the west side of the South Park Blocks across from Neuberger Hall. Special Collections and University Archives feature unique materials of regional and scholarly interest. PDXScholar, the university’s digital repository, houses online PSU theses, dissertations, and faculty scholarly contributions.

Classes and workshops on library information and resources are available for students and faculty. An Instruction Request Form is available online for faculty interested in librarian instruction services. Librarians are available for students who need assistance with a project, thesis, or dissertation. Find contact information for the subject librarian for your discipline on the Library’s Web site.

For reference assistance, visit the Library Research Center on the second floor, use the 24/7 chat service, text 66746 (begin your text with the word PDX), email eref@lists.pdx.edu, or call 503-725-2399.

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. Electronic course reserves are available via the Library’s Web site.

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 Web site www.library.pdx.edu or call 503-725-5874 for current hours.
Any Bachelors degree—any University major

The University Honors College combines the benefits of a liberal arts college curriculum with the opportunities of an urban research university. The College centrally engages Portland State’s mission to “Let Knowledge Serve the City,” and draws on Portland State’s institutional commitment to community engagement, sustainability and internationalization as well as its civic leadership and its location in downtown Portland. The College serves high-achieving, academically-motivated students by providing an engaged and challenging educational experience using the city of Portland as a living/learning laboratory.

Students have the opportunity to work closely with faculty on applied research projects, to network through internships and to take advantage of the resources of a large urban institution in the space of an intimate College. Students who participate in this unique and challenging curricular experience will graduate with University Honors in their chosen field.

The Honors College offers courses in the theory and methods of the human, natural, and social sciences, opportunities for independent study, honors colloquia and the production of a baccalaureate thesis. Honors College classes are small, and students work closely with advisers both in the College and in the academic departments of the University to plan their work toward the degree.

The University Honors College engages faculty from across the campus, giving students the opportunity to work with our finest teachers and researchers.

Degree Maps and Learning Outcomes

To view the degree map and expected learning outcomes for University Honors’ undergraduate degree, go to www.pdx.edu/undergraduate-programs.

Eligibility and admission

Interested students must complete a separate application to the University Honors College available on the Honors website: www.pdx.edu/honors. All students admitted to the University Honors College must first be admitted to Portland State University.

First-Year Students (entering from high school) minimum criteria:

Writing samples and letters of recommendation are also considered for application. Student who may not meet these criteria but provide examples of outstanding achievements are also invited to apply.

- 3.50 cumulative un-weighted high school GPA OR
- 1820 on the SAT OR
- 27 on the ACT

Transfer/Current PSU Student minimum criteria:

- Transfer college cumulative 3.25 GPA OR
- PSU cumulative 3.25 GPA

Graduation Requirements

All University Honors College (UHC) students must complete a required number of honors courses (see below) and a thesis/creative project supervised and defended in front of a faculty committee. To graduate from the University Honors College, they must have a cumulative GPA of 3.25.

UHC students entering as first-year students (30 credits or below):

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations: Hon 101, Hon 102, Hon 103</td>
</tr>
<tr>
<td>Methods: Hon 201, Hon 202, Hon 203</td>
</tr>
<tr>
<td>Total lower-division</td>
</tr>
<tr>
<td>Honors credits required</td>
</tr>
<tr>
<td>UHC seminars Hon 407</td>
</tr>
<tr>
<td>Thesis research and project Hon 401, Hon 403</td>
</tr>
<tr>
<td>Internship</td>
</tr>
<tr>
<td>Departmental Honors seminars</td>
</tr>
<tr>
<td>Honors contracts</td>
</tr>
<tr>
<td>Honors colloquia</td>
</tr>
<tr>
<td>Total upper-division credits required</td>
</tr>
</tbody>
</table>

UHC transfer students entering with lower-division standing (31-89 credits):
### Methods: Hon 201, Hon 202, Hon 203

Total lower-division Honors credits required: 12

UHC seminars Hon 407: 4-12

Thesis research and project Hon 401, Hon 403: 6-10

Internship: 0-8

Departmental Honors seminars: 0-8

Honors contracts: 0-4

Honors colloquia: 0-4

Total upper-division credits required: 18

### UHC transfer students entering with upper-division standing (more than 90 credits):

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UHC seminars Hon 407</td>
</tr>
<tr>
<td>Thesis research and project Hon 401, Hon 403 (or departmental prefix)</td>
</tr>
<tr>
<td>Internship</td>
</tr>
<tr>
<td>Departmental Honors seminars</td>
</tr>
<tr>
<td>Honors contracts</td>
</tr>
<tr>
<td>Honors colloquia</td>
</tr>
<tr>
<td>Total upper-division credits required</td>
</tr>
</tbody>
</table>

Honors students are exempt from University Studies requirements.

Honors courses count towards the baccalaureate distribution requirements in the following way:

- Hon 101, Hon 102, Hon 103 meets 8 credits in the area of arts and letters and 4 in the social science distribution area.
- Hon 201 meets 4 credits in the area of the social sciences.
- Hon 202 meets 4 credits in the area of arts and letters.
- Hon 203 meets 4 credits in the area of the sciences.

Completing this sequence also includes 3 credits of Wr 121.

Completing this Hon 201-203 sequence would also meet the University's lower-division writing requirement.

### Honors Curriculum

#### First year: Foundations

**The Global City**

Hon 101, Hon 102, Hon 103 (15 credits)

This year-long sequence introduces ways to think critically about the urban environment and the interdependence between the city and the global world. It begins the study of representations and perceptions of the city, the city in historical context, and the processes that shape the city's geopolitical manifestations. Class size limited to 30.

#### Second year: Methods

**Urban Discourses**

Hon 201, Hon 202, Hon 203 (12 credits)

Three connected courses on research methods: Urban Social Structure / Urban Culture/ Urban Ecology. These courses emphasize undergraduate research, with the city of Portland serving as archive, stage, and laboratory.

Hon 201

Students explore the concepts and systems by which cities operate through the application of primarily qualitative social science methodologies, such as ethnography and spatial/geographic analysis.

Hon 202

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

Students explore the concepts and ecological systems by which cities operate through the application of primarily quantitative science methodologies.

#### Third year: Knowledge and Praxis "Let Knowledge Serve the City"

**Seminars. (4-12 credits)**

Students may choose from a wide variety of interdisciplinary seminars broadly focused around key methodological and interdisciplinary questions today. Honors seminars in the student's individual majors, if offered, are required and will substitute for University Honors seminars. Class size limited to 20.

**Honors colloquia (0-4 credits)**

Faculty from across campus can propose Honors colloquia open to all Honors students. These 1 to 4 credit experiences should provide creative and engaging projects for students in a small alternative class. Examples of honors colloquia might include:

- attending the Portland arts and lecture series with a faculty, then participating in a discussion and then writing a critical response;
- Oregon urban/rural boundary tour: a five day ecological tour of wild spaces just at the end of Portland's urban boundary.

**Internships (0-8 credits)**
Internship opportunities are available Portland, Or, focused around organizations that serve multiple aspects of the urban experience, for example, OHSU, the National Institute for Health, the Smithsonian, the Portland Art Museum, the Multnomah County Library, Mercy Corps.

**Fourth year: Community Engagement and Scholarship**

**Research and Thesis (6-10 credits)**

Students will have the opportunity to take a short thesis prospectus course through the Honors College as well as research credits in their majors as students work closely with faculty advisors in their home departments. Additionally, students will work together throughout the year of their thesis research to better understand the public dimensions of their work. Part of their end-of-year defense will be to invite community partners and other public participants to discuss the implications of their work.
Undergraduate program

The **Arts Studies** degree program serves those undergraduates who would like to major in the arts in more than one school, or in interdisciplinary art forms. The program gives students the option to major in the arts gaining experience in a minimum of two, three, and possibly all four of the schools in the College of the Arts (art + design, architecture, music, and theatre + film). Additionally, the program provides options in the arts for those students who wish to pursue an interest in design or an interest in teaching in elementary schools.

At PSU as well as at other institutions, the School of Education is a graduate school, and students are required to have completed a BA/BS degree prior to entering the teaching program. Students who complete the Arts Studies education option degree would then apply to a school of education to complete their teaching education and credentialing.

DEGREE MAPS AND LEARNING OUTCOMES

To view the degree maps and expected learning outcomes for the College of the Art's undergraduate degrees, go to [www.pdx.edu/undergraduate-programs](http://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 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 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 school websites for more specific admissions information, and http://www.pdx.edu/the-arts/babs-in-arts-studies for admission to the Arts Studies major.

ARTS STUDIES – B.A./B.S.

The Arts Studies program gives students the option to major in the arts gaining experience in a minimum of two, three, and possibly all four of the Schools in the College of the Arts (art + design, architecture, music, and theater & film).

This degree serves those undergraduates who would like to major in the arts in more than one School, or in interdisciplinary art forms. Additionally, the program provides options in the arts for those students who wish to pursue an interest in design or an interest in teaching in elementary schools. At PSU as well as at other institutions, the School of Education is a graduate school. Students are required to have completed a BA/BS degree prior to entering the program. Students who complete the Arts Studies education option degree would then apply to a school of education to complete their teaching education and credentialing.

This degree requires 60 credits of study, including three College courses, two that provide a foundation and a third that serves as a senior project allowing students to apply what they have learned in the study of multiple arts theory and practice. This project may involve community-based learning, internships, apprentice teaching or creative projects. Students take 24 credits of entry level course work in both arts theory and practice continue their exploration in at least two fields, taking 24 upper division credits chosen in consultation in advance with an adviser and finish with the senior project. FPA 445 Senior Project is the culminating course for the Arts Studies major and requires an interdisciplinary independent project that ties in material from the courses taken for the major.

REQUIREMENTS FOR BACHELOR OF ARTS AND BACHELOR OF SCIENCE IN ARTS STUDIES

Each student enrolled in the Arts Studies BA/BS must complete 60 hours of coursework from the following schools: Art + Design, Architecture, Music, and Theater & Film. Students will plan their program under one of three options (general, education, design) with the college advisers or the Associate Dean for the College of the Arts.

Students with their adviser should pay particular attention to any courses that are prerequisites for upper division coursework they may want to take as they plan their program. The current list of courses for each option are found on the Art Studies website http://www.pdx.edu/the-arts/babs-in-arts-studies

Each student will participate in a multi-disciplinary course at three points in the curriculum: entering, mid-point and exiting: FPA 101 (4 credits), FPA 301 (4 credits), FPA 445 (4 credits).

The majority of courses necessary to fulfill the Arts Studies BA/BS are currently a part of the College’s course catalogue. The FPA abbreviation is used to distinguish three courses: 101, 301 and 445 that are specifically meant to serve the Arts Studies BA/BS.

Courses taken under the undifferentiated grading option (pass/no pass) will not be accepted toward fulfilling program major requirements. All courses used to satisfy the program major requirements must be graded C- or higher.

Core – required for all students

1. First year
   FPA 101 Perspectives in the Arts 4
   Mid-point
   FPA 301 Creative Thinking in the Arts 4
   Exit course
   FPA 445 Senior Project 4

   Subtotal: 12

(taken after completion of minimum of 40 credits in the major

2. Twelve credits taken from each of at least two departments from the approved list of courses

with a minimum of two courses in theory/two in practice from two different departments.

3. 24 upper division credits taken from at least two of the four Schools, with a minimum of 8 in any one.

AS majors may take any 300/400 in any of the four areas that have no prerequisites or for which they have taken the appropriate prerequisite

Subtotal: 60

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
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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch 100</td>
<td>Introduction to Architecture</td>
<td>4</td>
</tr>
<tr>
<td>Arch 101</td>
<td>Introduction to Environmental Design</td>
<td>4</td>
</tr>
<tr>
<td>Arch 120</td>
<td>Visual Communication 1</td>
<td>4</td>
</tr>
<tr>
<td>Arch 121</td>
<td>Visual Communication 2</td>
<td>4</td>
</tr>
<tr>
<td>Arch 230</td>
<td>Architecture and Cultural History I</td>
<td>4</td>
</tr>
<tr>
<td>Arch 231</td>
<td>Architecture and Cultural History II</td>
<td>4</td>
</tr>
<tr>
<td>Arch 232</td>
<td>Architecture and Cultural History III</td>
<td>4</td>
</tr>
<tr>
<td>Arch 280</td>
<td>Design Fundamentals Studio 1</td>
<td>6</td>
</tr>
<tr>
<td>Arch 281</td>
<td>Design Fundamentals Studio 2</td>
<td>6</td>
</tr>
<tr>
<td>Arch 360</td>
<td>Building Tectonics 1</td>
<td>4</td>
</tr>
<tr>
<td>Arch 361</td>
<td>Building Tectonics 2</td>
<td>4</td>
</tr>
<tr>
<td>Arch 362</td>
<td>Building Tectonics 3</td>
<td>4</td>
</tr>
<tr>
<td>Arch 380</td>
<td>Architectural Design Studio 1</td>
<td>6</td>
</tr>
<tr>
<td>Arch 381</td>
<td>Architectural Design Studio 2 and/or 3</td>
<td>12</td>
</tr>
<tr>
<td>Arch 384</td>
<td>Architectural Design Studio 4</td>
<td>6</td>
</tr>
<tr>
<td>Arch 385</td>
<td>Architectural Design Studio 5</td>
<td>6</td>
</tr>
<tr>
<td>Arch 3xx/4xx</td>
<td>Elective</td>
<td>8</td>
</tr>
<tr>
<td>Subtotal: 94</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
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 under revision; contact the School for details. 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
Arch 100 Introduction to Architecture 4
Arch 201 Project Management I 6
Arch 202 Project Management II 6
Arch 343 Project Management III 6
Arch 344 Construction Codes and Compliance 4
Arch 345 Advanced Construction Projects 4
Arch 280 Design Fundamentals Studio 1 6
Arch 281 Design Fundamentals Studio 2 6
Arch 340 The Profession of Architecture 4
Arch 341 Developing as a Professional 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
Arch 230 Architecture and Cultural History II 4
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 program

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 other discipline (134 credits).

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.

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 I  6
Arch 581  Architectural Design Studio II  6
Arch 582  Architectural Design Studio III  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

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

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.

School of Art+Design

110 Art Building
503-725-3515
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

The mission of the School of Art+Design at Portland State University is to foster creative and critical thinking and encourage its students to recognize and apply the power of art in contemporary society. 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 art making coupled with systematic study, 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 include 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 the 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. 119).

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, and vocal 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. 7)” 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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 190</td>
<td>6</td>
</tr>
<tr>
<td>Mup 290</td>
<td>6</td>
</tr>
<tr>
<td>Mup 390</td>
<td>6</td>
</tr>
<tr>
<td>Mup 490</td>
<td>6</td>
</tr>
<tr>
<td>Mus 046</td>
<td>no</td>
</tr>
<tr>
<td>Mus 048</td>
<td>no</td>
</tr>
<tr>
<td>Mus 049</td>
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</tr>
<tr>
<td>Mus 111</td>
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<td>Mus 112</td>
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<td>Mus 113</td>
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<td>Mus 114</td>
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<tr>
<td>Mus 115</td>
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</tr>
<tr>
<td>Mus 116</td>
<td>1</td>
</tr>
<tr>
<td>Mus 188</td>
<td>1</td>
</tr>
<tr>
<td>Mus 195, 196, 197, or 198 Band, Orchestra, Choir, or Jazz Lab Band</td>
<td>6</td>
</tr>
<tr>
<td>Mus 205</td>
<td>1</td>
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<tr>
<td>Mus 206</td>
<td>1</td>
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<tr>
<td>Mus 211</td>
<td>3</td>
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<tr>
<td>Mus 212</td>
<td>3</td>
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<td>Mus 213</td>
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<td>Mus 215</td>
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<td>Mus 216</td>
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<tr>
<td>Mus 240</td>
<td>2</td>
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<td>Mus 241</td>
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<tr>
<td>Mus 242</td>
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<td>Mus 291</td>
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<td>Mus 292</td>
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<td>Mus 293</td>
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<td>Mus 304</td>
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<td>Mus 305</td>
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<tr>
<td>Mus 306</td>
<td>4</td>
</tr>
<tr>
<td>Mus 311</td>
<td>3</td>
</tr>
<tr>
<td>Mus 312</td>
<td>3</td>
</tr>
<tr>
<td>Mus 313</td>
<td>3</td>
</tr>
</tbody>
</table>

Through the study of...
Mus 320  Fundamentals of Conducting  2  
Mus 394, 395, 396, 397, or 398  3  
Large or Small Ensemble  
Mus 411  Topics in Music History  2  
Mus 421  Analysis of Contemporary Music  3  
Mus 474  Midi Applications  2  
Or  
Mus 475  Midi Applications  2  
Mus 476  Computer Music Composition  3  
Music Electives (chosen in consultation with advisor)  15  

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.  

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  

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 Compositon 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.  
Subtotal: 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**  
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 190</td>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Mup 290</td>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Mup 390</td>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Mup 490</td>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Mus 046</td>
<td>Piano Proficiency Exam</td>
<td>no</td>
</tr>
<tr>
<td>Mus 048</td>
<td>Junior Recital</td>
<td>no</td>
</tr>
<tr>
<td>Mus 049</td>
<td>Senior Recital</td>
<td>no</td>
</tr>
<tr>
<td>Mus 111</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>Mus 112</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>Mus 113</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>Mus 114</td>
<td>Sight-Singing/Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 115</td>
<td>Sight-Singing/Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 116</td>
<td>Sight-Singing/Ear Training</td>
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</tr>
<tr>
<td>Mus 188</td>
<td>Performance Attendance</td>
<td>6</td>
</tr>
<tr>
<td>Mus 198</td>
<td>Jazz Lab Band</td>
<td>6</td>
</tr>
<tr>
<td>Mus 205</td>
<td>Listening I</td>
<td>1</td>
</tr>
<tr>
<td>Mus 206</td>
<td>Listening II</td>
<td>1</td>
</tr>
<tr>
<td>Mus 211</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>Mus 212</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>Mus 213</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>Mus 214</td>
<td>Sight Singing and Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 215</td>
<td>Sight Singing and Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 216</td>
<td>Sight Singing and Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 271</td>
<td>Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>Mus 272</td>
<td>Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>Mus 273</td>
<td>Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>Mus 291</td>
<td>Advanced Class Piano</td>
<td>2</td>
</tr>
<tr>
<td>Mus 292</td>
<td>Advanced Class Piano</td>
<td>2</td>
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<td>Mus 293</td>
<td>Advanced Class Piano</td>
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<tr>
<td>Mus 304</td>
<td>Music History</td>
<td>4</td>
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<tr>
<td>Mus 305</td>
<td>Music History</td>
<td>4</td>
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<td>Mus 306</td>
<td>Music History</td>
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<tr>
<td>Mus 320</td>
<td>Fundamentals of Conducting</td>
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<tr>
<td>Mus 355</td>
<td>Jazz History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 394</td>
<td>Chamber Music</td>
<td>6</td>
</tr>
<tr>
<td>Mus 398</td>
<td>Jazz Lab Band</td>
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<tr>
<td>Mus 411</td>
<td>Topics in Music History</td>
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</tr>
<tr>
<td>Mus 424</td>
<td>Instrumental Jazz Arranging</td>
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<tr>
<td>Mus 425</td>
<td>Instrumental Jazz Arranging</td>
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<tr>
<td>Mus 426</td>
<td>Instrumental Jazz Arranging</td>
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</tr>
<tr>
<td>Mus 471</td>
<td>Advanced Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>Mus 472</td>
<td>Advanced Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>Mus 473</td>
<td>Advanced Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>Mus 474</td>
<td>Midi Applications</td>
<td>2</td>
</tr>
<tr>
<td>Music Electives (chosen in consultation with advisor)</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

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: (jazz section)
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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 190</td>
<td>Applied Music</td>
<td>3</td>
</tr>
<tr>
<td>Mup 290</td>
<td>Applied Music</td>
<td>3</td>
</tr>
<tr>
<td>Mup 390/490</td>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Mus 046</td>
<td>Piano Proficiency Exam</td>
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</tr>
<tr>
<td>Mus 047</td>
<td>Final Project</td>
<td>no</td>
</tr>
<tr>
<td>Mus 111</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>Mus 112</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>Mus 113</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>Mus 114</td>
<td>Sight-Singing/Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 115</td>
<td>Sight-Singing/Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 116</td>
<td>Sight-Singing/Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 188</td>
<td>Performance Attendance</td>
<td>6</td>
</tr>
<tr>
<td>Mus 195, 196, 197, or 198 Band, Orchestra, Choir, or Jazz Lab Band</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Mus 205</td>
<td>Listening I</td>
<td>1</td>
</tr>
<tr>
<td>Mus 206</td>
<td>Listening II</td>
<td>1</td>
</tr>
<tr>
<td>Mus 211</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>Mus 212</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>Mus 213</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>Mus 214</td>
<td>Sight Singing and Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 215</td>
<td>Sight Singing and Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 216</td>
<td>Sight Singing and Ear Training</td>
<td>1</td>
</tr>
<tr>
<td>Mus 291</td>
<td>Advanced Class Piano</td>
<td>2</td>
</tr>
<tr>
<td>Mus 292</td>
<td>Advanced Class Piano</td>
<td>2</td>
</tr>
<tr>
<td>Mus 293</td>
<td>Advanced Class Piano</td>
<td>2</td>
</tr>
<tr>
<td>Mus 304</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 305</td>
<td>Music History</td>
<td>4</td>
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<tr>
<td>Mus 306</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 312</td>
<td>Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>Mus 320</td>
<td>Fundamentals of Conducting</td>
<td>2</td>
</tr>
<tr>
<td>Mus 321</td>
<td>Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>Mus 322</td>
<td>Choral Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MuEd 328</td>
<td>Introduction to Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MuEd 332</td>
<td>String Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 333</td>
<td>Guitar Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 334</td>
<td>Vocal Techniques K-12</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 335</td>
<td>Percussion Techniques</td>
<td>1</td>
</tr>
<tr>
<td>Mus 395, 396, 397, or 398 Band, Orchestra, Choir, or Jazz Lab Band</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Mus 409</td>
<td>Practicum</td>
<td>2</td>
</tr>
<tr>
<td>Mus 411</td>
<td>Topics in Music History</td>
<td>2</td>
</tr>
<tr>
<td>Mus 474</td>
<td>Midi Applications</td>
<td>2</td>
</tr>
<tr>
<td>MuEd 484</td>
<td>Music with Children</td>
<td>3</td>
</tr>
</tbody>
</table>

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)

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 355</td>
<td>Jazz History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 374</td>
<td>World Music</td>
<td>4</td>
</tr>
<tr>
<td>Mus 375</td>
<td>World Music</td>
<td>4</td>
</tr>
<tr>
<td>Mus 376</td>
<td>American Musical Traditions</td>
<td>4</td>
</tr>
</tbody>
</table>

Additionally, students need to choose a teaching subspeciality and complete the following courses in the appropriate track.

Instrumental Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 197</td>
<td>Chorus</td>
<td>1</td>
</tr>
<tr>
<td>Mus 397</td>
<td>Chorus</td>
<td>1</td>
</tr>
<tr>
<td>Mus 409</td>
<td>Marching Band Practicum</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 336</td>
<td>Flute and Double Reeds</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 337</td>
<td>Clarinet and Saxophone</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 338</td>
<td>High Brass Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 339</td>
<td>Low Brass Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 341</td>
<td>Jazz Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MuEd 422</td>
<td>Instrumental Literature and Rehearsal</td>
<td>3</td>
</tr>
<tr>
<td>MuEd 423</td>
<td>Instrumental Literature and Rehearsal</td>
<td>3</td>
</tr>
</tbody>
</table>

Choral/General Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 397</td>
<td>Chorus</td>
<td>1</td>
</tr>
</tbody>
</table>

Music Electives (chosen in consultation with advisor)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MuEd 480</td>
<td>Kodály Training: Level I</td>
<td>5</td>
</tr>
<tr>
<td>Or</td>
<td>MuEd 481 Kodály Training: Level II</td>
<td>5</td>
</tr>
<tr>
<td>Or</td>
<td>MuEd 482 Kodály Training: Level III</td>
<td>5</td>
</tr>
<tr>
<td>MuEd 340</td>
<td>Wind Instrument Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MuEd 420</td>
<td>Choral Literature and Rehearsal Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>MuEd 421</td>
<td>Choral Literature and Rehearsal Techniques II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Music Electives (chosen in consultation with advisor)</td>
<td>12</td>
</tr>
</tbody>
</table>

Subtotal: 123

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

Area Coordinator: W. Kiyama

**REQUIREMENTS**

**Required Courses**

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

**Music Electives**

Chosen in consultation with an adviser

<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4</td>
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</tbody>
</table>

Subtotal: 66

**PERFORMANCE B.A./B.S.**

**REQUIREMENTS**

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 190, 290, 390, 490</td>
<td>Applied Music</td>
<td>12</td>
</tr>
<tr>
<td>Mus 046</td>
<td>Piano Proficiency Exam</td>
<td>(no)</td>
</tr>
<tr>
<td>Mus 047</td>
<td>Final Project</td>
<td>(no)</td>
</tr>
<tr>
<td>Mus 111</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Two of the following (8 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 374</td>
<td>World Music</td>
<td>4</td>
</tr>
<tr>
<td>Mus 375</td>
<td>World Music</td>
<td>4</td>
</tr>
<tr>
<td>Mus 376</td>
<td>American Musical Traditions</td>
<td>4</td>
</tr>
</tbody>
</table>

**Music Electives**

Chosen in consultation with an adviser

<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Subtotal: 66
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 217  Piano Proficiency Exam  
Mus 290  Applied Music  6
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 307  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 355  Jazz History  4
Mus 374  World Music  4
Mus 375  World Music  4
Mus 376  American Musical Traditions  4
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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 190</td>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Mup 290</td>
<td>Applied Music</td>
<td>6</td>
</tr>
<tr>
<td>Mup 304</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mup 351</td>
<td>Accompanying</td>
<td>2</td>
</tr>
<tr>
<td>Mus 306</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 307</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 311</td>
<td>Formal Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Mus 312</td>
<td>Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>Mus 313</td>
<td>Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>Mus 320</td>
<td>Fundamentals of Conducting</td>
<td>2</td>
</tr>
<tr>
<td>Mus 351</td>
<td>Accompanying</td>
<td>2</td>
</tr>
<tr>
<td>Mus 395</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 396</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 397</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 398</td>
<td>Music History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 411</td>
<td>Topics in Music History</td>
<td>2</td>
</tr>
<tr>
<td>Mus 481</td>
<td>Pedagogy</td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal: 123

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)

Mus 590 – Mup 490: (6 credits of 390 and 6 credits of 490)

One of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 355</td>
<td>Jazz History</td>
<td>4</td>
</tr>
<tr>
<td>Mus 374</td>
<td>World Music</td>
<td>4</td>
</tr>
<tr>
<td>Mus 375</td>
<td>World Music</td>
<td>4</td>
</tr>
<tr>
<td>Mus 376</td>
<td>American Musical Traditions</td>
<td>4</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 190</td>
<td>Applied Music</td>
</tr>
<tr>
<td>Mup 290</td>
<td>Applied Music</td>
</tr>
<tr>
<td>Mup 390</td>
<td>Applied Music</td>
</tr>
<tr>
<td>Mup 490</td>
<td>Applied Music</td>
</tr>
<tr>
<td>Mus 046</td>
<td>Piano Proficiency Exam</td>
</tr>
<tr>
<td>Mus 048</td>
<td>Junior Recital</td>
</tr>
<tr>
<td>Mus 049</td>
<td>Senior Recital</td>
</tr>
<tr>
<td>Mus 111</td>
<td>Music Theory I</td>
</tr>
<tr>
<td>Mus 112</td>
<td>Music Theory I</td>
</tr>
<tr>
<td>Mus 113</td>
<td>Music Theory I</td>
</tr>
<tr>
<td>Mus 114</td>
<td>Sight-Singing/Ear Training</td>
</tr>
<tr>
<td>Mus 115</td>
<td>Sight-Singing/Ear Training</td>
</tr>
<tr>
<td>Mus 116</td>
<td>Sight-Singing/Ear Training</td>
</tr>
<tr>
<td>Mus 188</td>
<td>Performance Attendance</td>
</tr>
<tr>
<td>Mus 197</td>
<td>Chorus</td>
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<tr>
<td>Mus 205</td>
<td>Listening I</td>
</tr>
<tr>
<td>Mus 206</td>
<td>Listening II</td>
</tr>
<tr>
<td>Mus 211</td>
<td>Music Theory II</td>
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<tr>
<td>Mus 212</td>
<td>Music Theory II</td>
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<tr>
<td>Mus 213</td>
<td>Music Theory II</td>
</tr>
<tr>
<td>Mus 214</td>
<td>Sight Singing and Ear Training</td>
</tr>
<tr>
<td>Mus 215</td>
<td>Sight Singing and Ear Training</td>
</tr>
<tr>
<td>Mus 216</td>
<td>Sight Singing and Ear Training</td>
</tr>
<tr>
<td>Mus 291</td>
<td>Advanced Class Piano</td>
</tr>
<tr>
<td>Mus 292</td>
<td>Advanced Class Piano</td>
</tr>
<tr>
<td>Mus 293</td>
<td>Advanced Class Piano</td>
</tr>
<tr>
<td>Mus 304</td>
<td>Music History</td>
</tr>
<tr>
<td>Mus 305</td>
<td>Music History</td>
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<tr>
<td>Mus 306</td>
<td>Music History</td>
</tr>
<tr>
<td>Mus 312</td>
<td>Orchestration</td>
</tr>
<tr>
<td>Mus 320</td>
<td>Fundamentals of Conducting</td>
</tr>
<tr>
<td>Mus 397</td>
<td>Chorus</td>
</tr>
<tr>
<td>Mus 411</td>
<td>Topics in Music History</td>
</tr>
<tr>
<td>Mus 427</td>
<td>Opera Workshop</td>
</tr>
<tr>
<td>Mus 428</td>
<td>Opera Production</td>
</tr>
<tr>
<td>Mus Electives (chosen in consultation with advisor)</td>
<td>8-12</td>
</tr>
<tr>
<td>Mus 481</td>
<td>Pedagogy</td>
</tr>
<tr>
<td>Mus 485</td>
<td>Diction for Singers: Italian, German, and French</td>
</tr>
<tr>
<td>Mus 486</td>
<td>Diction for Singers: Italian, German, and French</td>
</tr>
<tr>
<td>Mus 487</td>
<td>Diction for Singers: Italian, German, and French</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 190</td>
<td>Applied Music</td>
</tr>
<tr>
<td>Mup 290</td>
<td>Applied Music</td>
</tr>
<tr>
<td>Mus 111</td>
<td>Music Theory I</td>
</tr>
<tr>
<td>Mus 112</td>
<td>Music Theory I</td>
</tr>
<tr>
<td>Mus 113</td>
<td>Music Theory I</td>
</tr>
<tr>
<td>Mus 114</td>
<td>Sight-Singing/Ear Training</td>
</tr>
<tr>
<td>Mus 115</td>
<td>Sight-Singing/Ear Training</td>
</tr>
<tr>
<td>Mus 116</td>
<td>Sight-Singing/Ear Training</td>
</tr>
<tr>
<td>Mus 188</td>
<td>Performance Attendance</td>
</tr>
<tr>
<td>Mus 198</td>
<td>Jazz Lab Band</td>
</tr>
<tr>
<td>Mus 203</td>
<td>Music in the Western World</td>
</tr>
<tr>
<td>Mus 355</td>
<td>Jazz History</td>
</tr>
<tr>
<td>Mus 398</td>
<td>Jazz Lab Band</td>
</tr>
</tbody>
</table>

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
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 190, 195, 196, or 197 Band, Orchestra, or Chorus 6
Mus 203 Music in the Western World 4
Mus 395, 396, or 397 Band, Orchestra, or Choir 3
Upper-division Music History or World Music 4

Mus 114 – Mus 116: Concurrent enrollment in Mus 111, Mus 112, and Mus 113 is required.
Mus 190, Mus 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

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)

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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 590</td>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>Mup 591</td>
<td>Applied Music in Secondary Area</td>
<td>2</td>
</tr>
<tr>
<td>Mus 506</td>
<td>Graduate Project or Recital</td>
<td>2</td>
</tr>
<tr>
<td>Mus 511</td>
<td>Music Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Mus 520</td>
<td>Analytical Techniques</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ensemble: Chosen with advice of</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>graduate faculty</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Education/Pedagogy (chosen with</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>adviser's assistance)</td>
<td></td>
</tr>
</tbody>
</table>

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

One of the following: (2-3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 521</td>
<td>Advanced Band Arranging</td>
<td>3</td>
</tr>
<tr>
<td>Mus 522</td>
<td>Advanced Orchestral Arranging</td>
<td>3</td>
</tr>
<tr>
<td>Mus 523</td>
<td>Advanced Choral Arranging</td>
<td>3</td>
</tr>
<tr>
<td>Mus 524</td>
<td>Instrumental Jazz Arranging</td>
<td>2</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 530</td>
<td>Song Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 531</td>
<td>Chamber Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 532</td>
<td>Band Wind Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 533</td>
<td>Orchestral Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 534</td>
<td>Choral Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 536</td>
<td>Opera Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 537</td>
<td>Keyboard Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 538</td>
<td>Keyboard Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 539</td>
<td>Instrumental Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 540</td>
<td>Jazz Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Three of the following: (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 560</td>
<td>Music History: The Medieval Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 561</td>
<td>Music History: The Renaissance Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 562</td>
<td>Music History: The Baroque Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 563</td>
<td>Music History: The Classical Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 564</td>
<td>Music History: The Romantic Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 565</td>
<td>Music History: Early 20th Century</td>
<td>2</td>
</tr>
<tr>
<td>Mus 566</td>
<td>Music History: Music Since 1950</td>
<td>2</td>
</tr>
</tbody>
</table>

One of the following (determined in conjunction with advisor):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 541</td>
<td>Advanced Conducting Methods</td>
<td>3</td>
</tr>
<tr>
<td>Mus 542</td>
<td>Advanced Choral Conducting</td>
<td>3</td>
</tr>
<tr>
<td>Mus 543</td>
<td>Advanced Instrumental Conducting</td>
<td>3</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mup 590</td>
<td>Applied Music</td>
<td>12</td>
</tr>
<tr>
<td>Mus 506</td>
<td>Graduate Project or Recital</td>
<td>2</td>
</tr>
<tr>
<td>Mus 511</td>
<td>Music Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Mus 520</td>
<td>Analytical Techniques</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>9</td>
</tr>
</tbody>
</table>

Electives: (Determined in conjunction with advisor)

Two of the following: (4 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 560</td>
<td>Music History: The Medieval Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 561</td>
<td>Music History: The Renaissance Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 562</td>
<td>Music History: The Baroque Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 563</td>
<td>Music History: The Classical Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 564</td>
<td>Music History: The Romantic Period</td>
<td>2</td>
</tr>
<tr>
<td>Mus 565</td>
<td>Music History: Early 20th Century</td>
<td>2</td>
</tr>
<tr>
<td>Mus 566</td>
<td>Music History: Music Since 1950</td>
<td>2</td>
</tr>
</tbody>
</table>

Two of the following: (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 530</td>
<td>Song Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 531</td>
<td>Chamber Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 532</td>
<td>Band Wind Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 533</td>
<td>Orchestral Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 534</td>
<td>Choral Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 536</td>
<td>Opera Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 537</td>
<td>Keyboard Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 538</td>
<td>Keyboard Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 539</td>
<td>Instrumental Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 540</td>
<td>Jazz Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 581</td>
<td>Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>Mus 582</td>
<td>Pedagogy</td>
<td>3</td>
</tr>
</tbody>
</table>
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

All of the following:
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: (3 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

Electives: (Determined in conjunction with advisor)
Mus 521  Advanced Band Arranging  3
Mus 522  Advanced Orchestral Arranging  3
Mus 523  Advanced Choral Arranging  3
Mus 532  Band Wind Literature  3
Mus 533  Orchestral Literature  3
Mus 534  Choral Literature  3
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

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.

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

One of the following:
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

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 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 REQUIREMENTS

See “Admission requirements (p. 7)” for information on general admission to the University. See www.pdx.edu/theatre-film/ for information on admission to programs in the School of Theater + Film.

Majors are required to meet with an adviser during their freshman year before they will be allowed to register for the following fall classes. Majors also must be admitted to the program before taking upper division courses. Students should apply for admittance to the major a term prior to attaining junior status.

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, 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, Peninsular Drama, and Sophocles/Euripides).

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:

Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 111</td>
<td>Technical Theater I</td>
<td>3</td>
</tr>
<tr>
<td>TA 112</td>
<td>Technical Theater II</td>
<td>3</td>
</tr>
<tr>
<td>TA 114</td>
<td>Technical Theater Production I</td>
<td>1</td>
</tr>
<tr>
<td>TA 115</td>
<td>Technical Theater Production II</td>
<td>1</td>
</tr>
<tr>
<td>TA 248</td>
<td>Acting I: Process</td>
<td>4</td>
</tr>
<tr>
<td>TA 252</td>
<td>Stage Makeup</td>
<td>2</td>
</tr>
<tr>
<td>TA 301</td>
<td>Script Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>
TA 311  Scene Design I  4
TA 316  Technical Theater Lab  2
TA 321  Introduction to Costume Design  4
TA 454  Directing I  4
TA 464  Development of Dramatic Art  4
TA 465  Development of Dramatic Art  4

**12 credits chosen from the following:**
TA 330  Multicultural Theater  4
TA 369  Women, Theater, and Society  4
TA 467  Modern Theater I  4
TA 468  Modern Theater II  4
TA 471  Theater History: Periods and Topics  1-4
TA 472  Theater History: Major Figures  1-4

**4 credits of the following:**
TA 333  Workshop Theater: Directing/Stage Management/Dramaturgy  1
TA 334  Workshop Theater: Scenery & Lighting Production  1-2
TA 335  Workshop Theater: Management/Publicity  1
TA 336  Workshop Theater: Costume Production  1

with a maximum of 2 credits in any one of the above.
Workshop credits in excess of this maximum may be used to satisfy elective and general requirements

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 16 credits must be taken in residence at Portland State University.

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### THEATER ARTS MINOR

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

#### REQUIREMENTS

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 101  Theater Appreciation</td>
<td>4</td>
</tr>
<tr>
<td>TA 305  Understanding Theater</td>
<td>4</td>
</tr>
<tr>
<td>TA 301  Script Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

**Four credits chosen from:**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 369  Women, Theater, and Society</td>
<td>4</td>
</tr>
<tr>
<td>TA 464  Development of Dramatic Art</td>
<td>4</td>
</tr>
<tr>
<td>TA 465  Development of Dramatic Art</td>
<td>4</td>
</tr>
</tbody>
</table>

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### FILM B.A./B.S.

#### REQUIREMENTS

In addition to meeting the general University degree requirements, the major in film will plan a program with a faculty adviser that meets the following minimum requirements:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 131  Film Analysis</td>
<td>4</td>
</tr>
<tr>
<td>FILM 381  Film History I: 1894 to the Second World War</td>
<td>4</td>
</tr>
<tr>
<td>FILM 381L  Lab for Film 381</td>
<td></td>
</tr>
<tr>
<td>FILM 382  Film History II: Cinema and Modernism (1946-1970s)</td>
<td>4</td>
</tr>
<tr>
<td>FILM 382L  Lab for Film 382</td>
<td></td>
</tr>
<tr>
<td>FILM 383  Film History III: Contemporary World Cinema (1970s-Present)</td>
<td>4</td>
</tr>
<tr>
<td>FILM 383L  Lab for Film 383</td>
<td></td>
</tr>
<tr>
<td>FILM 480  Film Theory</td>
<td>4</td>
</tr>
<tr>
<td>TA 301  Script Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

**16 credits chosen from the following:**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 384  American Cinema and Culture I</td>
<td>4</td>
</tr>
<tr>
<td>FILM 385  American Cinema and Culture II</td>
<td>4</td>
</tr>
<tr>
<td>FILM 484  Anatomy of a Movie I: Product of the Studio Era</td>
<td>4</td>
</tr>
<tr>
<td>FILM 485  Anatomy of a Movie II: The Independent Film</td>
<td>4</td>
</tr>
<tr>
<td>TA 474  Dramatic Writing I</td>
<td>4</td>
</tr>
<tr>
<td>TA 475  Dramatic Writing II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Film Curriculum Electives**

*16 elective credits chosen from the Film curriculum courses with at least 12 carrying numbers 300 or above

Subtotal: 56

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 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.

*Students may also seek program adviser approval to substitute elective coursework from other film courses in the university.

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.

**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:

<table>
<thead>
<tr>
<th>Courses</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 131</td>
<td>Film Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FILM 135</td>
<td>Classic Movies</td>
<td>4</td>
</tr>
<tr>
<td>Eng 304</td>
<td>Critical Theory of Cinema</td>
<td>4</td>
</tr>
</tbody>
</table>

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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 101</td>
<td>Basic Materials of Music</td>
<td>4</td>
</tr>
<tr>
<td>TA 102</td>
<td>Introduction to Acting</td>
<td>4</td>
</tr>
<tr>
<td>TA 350</td>
<td>Dance Improvisation</td>
<td>4</td>
</tr>
<tr>
<td>TA 351</td>
<td>Dance Composition</td>
<td>4</td>
</tr>
<tr>
<td>TA 352</td>
<td>Dance Choreography</td>
<td>4</td>
</tr>
<tr>
<td>TA 355</td>
<td>Dance Production</td>
<td>4</td>
</tr>
</tbody>
</table>

**Four credits of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Dance Laboratory: Modern I, II, III</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 193</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>TA 196</td>
<td>Dance Laboratory: Ballet I, II, III</td>
<td>2</td>
</tr>
<tr>
<td>TA 396</td>
<td>Dance Laboratory: Ballet I, II, III</td>
<td>2</td>
</tr>
</tbody>
</table>

**Four credits selected from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Dance Laboratory: Topics I, II, III</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 195</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>TA 197</td>
<td>Dance Laboratory: Jazz I, II, III</td>
<td>2</td>
</tr>
<tr>
<td>TA 397</td>
<td>Dance Laboratory: Jazz I, II, III</td>
<td>2</td>
</tr>
</tbody>
</table>

**Four credits of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Dance Laboratory: Modern I, II, III</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 393</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Two courses chosen from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Contemporary Dance 1920 to Present</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 362</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>TA 366</td>
<td>Dance in Film: Early Years through the 1940s</td>
<td>4</td>
</tr>
<tr>
<td>TA 367</td>
<td>Dance in Film: 1940s to Present</td>
<td>4</td>
</tr>
</tbody>
</table>

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.
DANCE MINOR

REQUIREMENTS

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

Courses
TA 104 Dance Appreciation 4
Or
TA 304 Dance Appreciation 4

TA 351 Dance Composition 4
TA 362U Contemporary Dance 1920 to Present 4

Dance electives (at least 8 upper-division):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 193</td>
<td>Dance Laboratory: Modern I, II, III</td>
<td>2</td>
</tr>
<tr>
<td>TA 196</td>
<td>Dance Laboratory: Ballet I, II, III</td>
<td>2</td>
</tr>
<tr>
<td>TA 197</td>
<td>Dance Laboratory: Jazz I, II, III</td>
<td>2</td>
</tr>
<tr>
<td>TA 195</td>
<td>Dance Laboratory: Topics I, II, III</td>
<td>2</td>
</tr>
<tr>
<td>TA 350</td>
<td>Dance Improvisation</td>
<td>4</td>
</tr>
<tr>
<td>TA 352</td>
<td>Dance Choreography</td>
<td>4</td>
</tr>
<tr>
<td>TA 366</td>
<td>Dance in Film: Early Years through the 1940s</td>
<td>4</td>
</tr>
<tr>
<td>TA 367</td>
<td>Dance in Film: 1940s to Present</td>
<td>4</td>
</tr>
<tr>
<td>TA 393</td>
<td>Dance Laboratory: Modern I, II, III</td>
<td>2</td>
</tr>
<tr>
<td>TA 396</td>
<td>Dance Laboratory: Ballet I, II, III</td>
<td>2</td>
</tr>
<tr>
<td>TA 397</td>
<td>Dance Laboratory: Jazz I, II, III</td>
<td>2</td>
</tr>
</tbody>
</table>

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

The School of Theater + Film offers the degrees of Master of Arts and Master of Science. The Master of Arts degree prepares students who want to focus their graduate study on playwriting, research and scholarship in the history, literature, and criticism of the theater and who may also plan to continue their graduate work in a doctoral program in theater. The Master of Science degree prepares for students who wish to focus more intensively on performance and production areas in preparation for a career in the professional theater and/or further degree work in a Master of Fine Arts theater or film program. The program of each graduate student is planned in consultation with the School advisor.

ADMISSION REQUIREMENTS

A prospective student shall be admitted to graduate study after the School has reviewed the student’s qualifications and recommended acceptance into the specific degree program.

The prospective M.A./M.S. graduate student who, after initial admission to the graduate program, does not enroll for classes within one calendar year shall have admission to the degree program cancelled.

DEGREE REQUIREMENTS

See University master’s degree requirements (p. 46).
Specific School requirements are listed below.

Master of Arts or Master of Science

Prospective graduate students who plan to earn an M.A. or M.S. degree should present a minimum of 24 credits in theater arts, including 4 credits in script analysis, 4 credits in acting, 4 credits in directing, 8 credits in technical theater, and 4 credits in costume, scenic and/or lighting design or equivalent competencies as determined by the School. Individual students may be required to complete additional graduate and undergraduate courses to make up for deficiencies.

All master’s degree students must successfully complete a minimum of 45 graduate credits with at least 33 credits of adviser-approved courses in theater arts. Twelve credits may be taken in approved areas outside the School of Theater + Film. In addition, the student must successfully complete one of the following projects, for which no fewer than 6 graduate credits in theater arts will be given: (1) a research thesis on an approved topic from the fields of theater history, theory, practice, or dramatic literature and criticism; (2) two papers of appropriate length on subjects chosen from the fields of theater history, theory, practice, or dramatic literature and criticism; (3) a project in directing, scenic design, lighting design, costume design, or acting; or (4) the composition of two one-act plays or one full-length play. An oral examination is required.
The Master of Arts student must demonstrate competence in the use of a foreign language and will typically complete the degree program with a thesis, playwriting, or two paper project. The Master of Science student must demonstrate expertise in skills pertaining to either advanced theater/film performance or design and will typically complete the degree program with a project in directing, acting, scene design, costume design or lighting design, a project in dramatic writing, or a two-paper project.
SCHOOL OF BUSINESS ADMINISTRATION

Scott Marshall, Interim Dean
Erica Wagner, Associate Dean, Undergraduate Programs
Cliff Allen, Interim Associate Dean, Graduate Programs
Pamela Tierney, Associate Dean, Faculty And Research

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 - 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

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 and international business 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 or a faculty member of their choice.

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 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 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

<table>
<thead>
<tr>
<th>Courses</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 101</td>
<td>Introduction to Business and World Affairs</td>
<td>4</td>
</tr>
<tr>
<td>BA 205</td>
<td>Business Communications Using Technology</td>
<td>4</td>
</tr>
<tr>
<td>BA 211</td>
<td>Fundamentals of Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA 213</td>
<td>Decision Making with Accounting Information</td>
<td>4</td>
</tr>
<tr>
<td>Ec 201</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>Stat 243</td>
<td>Introduction to Probability and Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>Stat 244</td>
<td>Introduction to Probability and Statistics II</td>
<td>4</td>
</tr>
<tr>
<td>Comm 220</td>
<td>Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>Wr 121</td>
<td>College Writing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Freshman Inquiry</td>
<td></td>
</tr>
</tbody>
</table>

BA 101: (waived for post-baccalaureate students)
BA 205: (waived for post-baccalaureate students)
Stat 243, Stat 244: (for business majors)

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 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 101</td>
<td>Introduction to Business and World Affairs</td>
<td>4</td>
</tr>
<tr>
<td>BA 205</td>
<td>Business Communications Using Technology</td>
<td>4</td>
</tr>
<tr>
<td>BA 211</td>
<td>Fundamentals of Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA 213</td>
<td>Decision Making with Accounting Information</td>
<td>4</td>
</tr>
<tr>
<td>BA 301</td>
<td>Research and Analysis of Business Problems</td>
<td>4</td>
</tr>
<tr>
<td>BA 302</td>
<td>Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>BA 303</td>
<td>Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>BA 311</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>BA 325</td>
<td>Competing with Information Technology</td>
<td>4</td>
</tr>
<tr>
<td>BA 339</td>
<td>Operations and Quality Management</td>
<td>4</td>
</tr>
<tr>
<td>BA 385</td>
<td>Business Environment</td>
<td>4</td>
</tr>
<tr>
<td>BA 495</td>
<td>Business Strategy</td>
<td>6</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actg 335</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

**Subtotal: 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actg 360</td>
<td>Management Accounting</td>
<td></td>
</tr>
<tr>
<td>Actg 381</td>
<td>Financial Accounting and Reporting I</td>
<td></td>
</tr>
<tr>
<td>Actg 382</td>
<td>Financial Accounting and Reporting II</td>
<td></td>
</tr>
<tr>
<td>Actg 383</td>
<td>Financial Accounting and Reporting III</td>
<td></td>
</tr>
<tr>
<td>Actg 421</td>
<td>Introduction to Taxation</td>
<td></td>
</tr>
<tr>
<td>Actg 430</td>
<td>Governmental and Not-for-Profit Accounting</td>
<td></td>
</tr>
<tr>
<td>Actg 492</td>
<td>Auditing Concepts and Practices</td>
<td></td>
</tr>
<tr>
<td>Actg 495</td>
<td>Integrated Accounting Issues</td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal: 36**

**One upper-division accounting course to be chosen from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actg 422</td>
<td>Advanced Taxation</td>
<td></td>
</tr>
<tr>
<td>Actg 460</td>
<td>Advanced Managerial Accounting</td>
<td></td>
</tr>
<tr>
<td>Actg 485</td>
<td>Business Law</td>
<td></td>
</tr>
<tr>
<td>Actg 490</td>
<td>Advanced Financial Accounting</td>
<td></td>
</tr>
<tr>
<td>Actg 493</td>
<td>Advanced Auditing</td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal: 20-36**

**Students electing accounting as an option will also be required to take:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phl 308</td>
<td>Elementary Ethics</td>
<td></td>
</tr>
<tr>
<td>Phl 309</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>PS 101</td>
<td>United States Government</td>
<td></td>
</tr>
<tr>
<td>PS 102</td>
<td>United States Politics</td>
<td></td>
</tr>
<tr>
<td>Anthropology, psychology, or sociology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal: 24**

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mktg 340</td>
<td>Advertising</td>
<td></td>
</tr>
<tr>
<td>Mktg 363</td>
<td>Consumer Behavior and Customer Satisfaction</td>
<td></td>
</tr>
<tr>
<td>Mktg 441</td>
<td>Media Strategy</td>
<td></td>
</tr>
<tr>
<td>Mktg 442</td>
<td>Creative Strategy</td>
<td></td>
</tr>
<tr>
<td>Mktg 443</td>
<td>Advertising Campaigns</td>
<td></td>
</tr>
<tr>
<td>Mktg 460</td>
<td>Marketing Research</td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal: 4**

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actg 381</td>
<td>Financial Accounting and Reporting I</td>
<td></td>
</tr>
<tr>
<td>Fin 319</td>
<td>Intermediate Financial Management</td>
<td></td>
</tr>
<tr>
<td>Fin 352</td>
<td>Investments</td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal: 4**
### School of Business Administration

#### Financial Management
- **Fin 441 Fundamentals of Derivative Securities**: 4 credits
- **Fin 449 Valuation**: 4 credits
- **Fin 456 International Financial Management**: 4 credits
- **Fin 465 Finance Topics and Cases**: 4 credits

**Subtotal:** 28 credits

#### 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 credits
- **Mgmt 461 Reward Systems and Performance Management**: 4 credits
- **Mgmt 471 Staffing and Employee Selection**: 4 credits
- **Mgmt 493 Human Resource Strategy**: 4 credits

**Subtotal:** 20 credits

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 credits
- **Mgmt 428 Team Processes**: 4 credits
- **Mgmt 445 Organizational Design and Change**: 4 credits
- **Mgmt 464 Contemporary Leadership Issues**: 4 credits

**Electives**: 8 credits

**Subtotal:** 24 credits

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 credits
- **Mktg 460 Marketing Research**: 4 credits
- **Mktg 464 Marketing Strategy and Management**: 4 credits

**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 credits
  - **Mktg 461 eMarketing**: 4 credits
  - **Mktg 463 Service Innovation**: 4 credits

- **Food and consumer package goods marketing track:**
  - **Mktg 375 Retailing**: 4 credits
  - **Mktg 435 Consumer Package Goods Marketing**: 4 credits

- **Global marketing management track:**
  - **Mktg 376 International Business**: 4 credits
  - **Mktg 466 Principles of International Marketing**: 4 credits

**Upper-division Marketing Electives**

- Upper-division marketing elective(s) 8 credits

**Subtotal:** 28 credits

#### 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 credits
- **ISQA 439 Purchasing and Supply Chain Management**: 4 credits
- **ISQA 479 Integrated Supply and Logistics Management**: 4 credits

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 credits
- **ISQA 431 Transportation Regulation**: 4 credits
- **ISQA 440 Governmental Procurement**: 4 credits
- **ISQA 449 Process Control and Improvement**: 4 credits
- **ISQA 450 Project Management**: 4 credits
- **ISQA 451 Business Forecasting**: 4 credits
- **ISQA 454 Supply and Logistics Negotiations**: 4 credits
- **ISQA 458 Purchasing and Logistics within the Food Industry**: 4 credits
- **ISQA 459 Production Planning and Control**: 4 credits
- **ISQA 410 Selected Topics**: 1-6 credits

**Subtotal:** 28 credits
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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 101</td>
<td>Introduction to Business and World Affairs</td>
<td>4</td>
</tr>
<tr>
<td>Fin 218</td>
<td>Personal Finance</td>
<td>4</td>
</tr>
<tr>
<td>BA 306</td>
<td>Working with Money for Business Minors</td>
<td>4</td>
</tr>
<tr>
<td>BA 316</td>
<td>Working with Customers for Business Minors</td>
<td>4</td>
</tr>
<tr>
<td>BA 326</td>
<td>Working with People for Business Minors</td>
<td>4</td>
</tr>
<tr>
<td>BA 336</td>
<td>Working with Information for Business Minors</td>
<td>4</td>
</tr>
<tr>
<td>BA 346</td>
<td>Working as an Entrepreneur for Business Minors</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 311</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>Mktg 340</td>
<td>Advertising</td>
<td>4</td>
</tr>
<tr>
<td>Mktg 363</td>
<td>Consumer Behavior and Customer Satisfaction</td>
<td>4</td>
</tr>
<tr>
<td>Mktg 442</td>
<td>Creative Strategy</td>
<td>4</td>
</tr>
</tbody>
</table>
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.

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.

In addition, the following is a prerequisite for communication majors who elect to pursue this minor:
Comm 322 Mass Communication and Society 4

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 Channel 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

The entire application process can take up to 12 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.

Applying to the Graduate Business Programs at Portland State University is a two-step process which involves applying to both Portland State University’s Office of Admissions and 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
Dates for Spring Admission

Currently, the only graduate business program that admits in the Spring is the part-time MRED program. Applications and all supporting documents:

- February 1 – Spring MRED deadline

Admission to the Graduate Business Programs program is competitive, based on an applicant’s ability to meet a range of application criteria. To be admitted to this program the student must complete the following:

1. A four year undergraduate degree from an accredited institution, or its equivalent, with a grade point average (GPA) of 2.75 or higher. Typically, students with a GPA less than 2.5 will need to complete 9 graduate credits with a GPA of 3.0 or higher
2. A competitive GMAT or GRE score
3. A current resume
4. Two letters of recommendation
5. Essay of Intent
6. Interview (MBA and The Healthcare MBA)
7. English proficiency: All graduate students, including resident aliens and citizens, whose first language is not English must meet the English language proficiency requirement prior to enrollment in academic classes. See the University policy: http://www.pdx.edu/admissions/international-graduate-admission.

Pathway Programs:

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
- ACTG+MSFA Pathway application
- Two professional/academic references
- Resume

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

For further details, please visit: www.msfa.pdx.edu.

Master of International Management (MIM)

For applicants who do not have a Bachelor’s degree in Business Administration, the following prerequisite courses are needed:

- Managerial and Financial Accounting
- Micro and Macro Economics
- Business Finance
- Business Statistics
- Business Writing

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 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 weekends.

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: 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 2
- **Mktg 512** Marketing Strategy 4
- **Mgmt 512** Organizational Management 4
- **Fin 513** Financial Management 4
- **ISQA 511** Sustainable Operations Management 4
- **ISQA 513** Business Decision Tools for Managers 2
- **ISQA 514** Survey Research Techniques 1
- **ISQA 515** 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 at the end of the program.

**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 sustainability-based business.

**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 see the website (www.pdx.edu/gradbusiness/mba-supply-chain-dual-degree) or 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, Actg 511, Actg 512, Fin 511, Fin 512, ISQA 511, ISQA 513, ISQA 514, ISQA 515, Mgmt 512 or Mgmt 513 may be considered for waiver. 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 healthcare 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actg 553</td>
<td>Financial Statement Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Actg 560</td>
<td>Professional Ethics and the Public Interest</td>
<td>2</td>
</tr>
<tr>
<td>BA 522</td>
<td>Communications for Leaders</td>
<td>1</td>
</tr>
<tr>
<td>BA 523</td>
<td>Executive Perspectives on Leadership</td>
<td>1</td>
</tr>
<tr>
<td>BA 525</td>
<td>Capstone Consulting Project</td>
<td>2-6</td>
</tr>
<tr>
<td>Fin 545</td>
<td>Hedging and Risk Management</td>
<td>4</td>
</tr>
<tr>
<td>Fin 551</td>
<td>Financial Management for Financial Analysts</td>
<td>4</td>
</tr>
<tr>
<td>Fin 553</td>
<td>Valuation and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Mgmt 511</td>
<td>Foundations of Strategy</td>
<td>2</td>
</tr>
</tbody>
</table>

Specialization Tracks (16 credits)

(Choose One)
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 student credit hours and be completed in two years on a part-time basis.

**Year 1**
- GSCM 511 Principles of Strategic Global Sourcing 4
- GSCM 512 Global Managerial and Cost Accounting 4
- GSCM 513 Principles of Strategic Global Logistics 4
- GSCM 522 Global Leadership and Ethics in Supply Chain Management 2
- GSCM 516 Global Supply Chain Forecasting and Production Planning 4
- GSCM 520 Global Supply Chain Strategy 2

**Year 2**
- GSCM 515 Global Case Studies in Supply Chain Management 4
- GSCM 517 Supply Chain International Field Study 4
- GSCM 518 Global Supply Chain Project Management 4
- GSCM 519 Global Supply Chain Negotiations 4
- GSCM 514 Reverse Logistics and Closed Loop Supply Chain 4
- GSCM 521 Global Information, Systems and Data Analytics 4
- GSCM 525 Supply Chain Capstone Consulting Experience 4
- 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 see the website (www.pdx.edu/gradbusiness/ms-gscm-mba-dual-degree) or 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 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 proposed 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. General MIM requirements include core program credits plus the language requirement. Furthermore, students will produce the international business project in their chosen area of specialization. See Web site for course descriptions of Specialization courses www.mim.pdx.edu.

MIM Requirements

In addition to meeting the requirements for PSU and the School of Business Administration, we also require applicants to complete the following prerequisite courses with a B- or better: Managerial and Financial Accounting, Micro and Macro Economics, Business Finance, Statistics

These prerequisite courses must be completed successfully prior to enrolling in the MIM program. The admissions committee evaluates each student’s application to determine which courses (if any) are required. Applicants can complete these prerequisites through the MIM prerequisite program. The MIM prerequisite program is a summer program (June-August), 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.

Transfer Credits and Course Waivers

Since the Master of International Management program is a cohort program, 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

<table>
<thead>
<tr>
<th>Core Courses (56 credits)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIM 506</td>
<td>International Business Research Project</td>
</tr>
<tr>
<td>MIM 507</td>
<td>Age of Pacific Lecture Series</td>
</tr>
<tr>
<td>MIM 509</td>
<td>Global Business Immersion</td>
</tr>
<tr>
<td>MIM 512</td>
<td>Global Leadership and Ethics</td>
</tr>
<tr>
<td>MIM 513</td>
<td>Pacific Rim Economies, Trade, and Financial Markets</td>
</tr>
<tr>
<td>MIM 514</td>
<td>Global Managerial and Cost Accounting</td>
</tr>
<tr>
<td>MIM 515</td>
<td>Global Contemporary Marketing</td>
</tr>
<tr>
<td>MIM 516</td>
<td>Contemporary Pacific Rim and World Affairs</td>
</tr>
<tr>
<td>MIM 517</td>
<td>Accounting for Global Enterprises</td>
</tr>
<tr>
<td>MIM 522</td>
<td>Global Communications</td>
</tr>
<tr>
<td>MIM 527</td>
<td>Intercultural Competence and Communications I</td>
</tr>
<tr>
<td>MIM 528</td>
<td>Intercultural Competence and Communications II</td>
</tr>
<tr>
<td>MIM 535</td>
<td>Global Marketing Research and Innovation</td>
</tr>
<tr>
<td>MIM 558</td>
<td>Global Comparative Operations Management</td>
</tr>
<tr>
<td>MIM 564</td>
<td>Global Human Resource Management</td>
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<tr>
<td>MIM 568</td>
<td>Managing Information Technology Globally</td>
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<tr>
<td>MIM 574</td>
<td>International Corporate Finance and Investment</td>
</tr>
<tr>
<td>MIM 577</td>
<td>International Business Negotiations</td>
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<tr>
<td>MIM 579</td>
<td>Asia Field Study</td>
</tr>
<tr>
<td>MIM 588</td>
<td>Global Business Strategy I</td>
</tr>
<tr>
<td>MIM 589</td>
<td>Global Business Strategy II</td>
</tr>
</tbody>
</table>
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

The MRED program is designed to be completed in 24 months on a part-time basis or 12 months on a full-time basis. 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 527</td>
<td>Downtown Revitalization</td>
<td>3</td>
</tr>
<tr>
<td>USP 569</td>
<td>Sustainable Cities and Regions</td>
<td>4</td>
</tr>
<tr>
<td>USP 596</td>
<td>Affordable Housing Finance</td>
<td>3</td>
</tr>
<tr>
<td>USP 612</td>
<td>Community, Planning, and Ethics</td>
<td>4</td>
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Finance, Markets, and Law

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RE 521</td>
<td>Real Estate Finance I</td>
<td>4</td>
</tr>
<tr>
<td>RE 522</td>
<td>Real Estate Finance II</td>
<td>4</td>
</tr>
<tr>
<td>RE 573</td>
<td>Housing Economics</td>
<td>4</td>
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</table>

Project Development

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>USP 523</td>
<td>Real Estate Development I</td>
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<tr>
<td>USP 546</td>
<td>Real Estate Development II</td>
<td>4</td>
</tr>
<tr>
<td>USP 624</td>
<td>Development Project Design</td>
<td>3</td>
</tr>
<tr>
<td>RE 531</td>
<td>Executive Perspectives on Real Estate</td>
<td>1</td>
</tr>
<tr>
<td>RE 562</td>
<td>Real Estate Development Workshop</td>
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Electives

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>10</td>
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</tbody>
</table>

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
Cheryl L. Livneh, Associate Dean for Outreach
608 School of Education Building, 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. 237)” 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 on our Web page at www.pdx.edu/education.

DEGREE REQUIREMENTS
See University graduate degree requirements (p. 46). Specific Graduate School of Education requirements for degree, educational specialists, or license candidates are listed below. Upon successful completion of all University and Graduate School of Education requirements, the candidate will be awarded the appropriate degree and be recommended, upon request, for the appropriate license.

EDUCATION M.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.

Courses
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
ELP 551 Social Foundations of Education 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.

EDUCATION M.ED.
The M.Ed. is earned by students who have completed PSU’s Graduate Teacher Education Program (p. 119) (GTEP) or Secondary Dual Educator Program (p. 121) (SDEP). Graduate level students in the Bilingual Teacher Pathway (p. 121) (BTP) Program may earn the M.Ed. with the completion of the additional course below.

ITP 551 Research and Classroom Inquiry 1-4

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.
from the Graduate School of Education. For more information please visit our web site at www.pdx.edu/elp/.

Information about specific specializations and licensure programs can also be found on our website.

MA/MS Postsecondary Adult and Continuing Education

MA/MS Leadership for Sustainability Education
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. 118)
• Student Affairs in Higher Education (p. 118)
• Service-Learning and Community-Based Learning in Higher Education (p. 118)

**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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 510</td>
<td>Guidance for the Classroom Teacher</td>
<td>3</td>
</tr>
<tr>
<td>CI 561</td>
<td>Advanced Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CI 565</td>
<td>Theoretical Models of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CI 567</td>
<td>Curriculum and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CI 580</td>
<td>Theories of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>CI 581</td>
<td>Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>CI 590</td>
<td>Action Research Proposal</td>
<td>3</td>
</tr>
<tr>
<td>CI 591</td>
<td>Action Research Implementation</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 credentialed 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. 119”). Courses numbered 808 are not allowed.

Core courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coun 504</td>
<td>Internship</td>
<td>12</td>
</tr>
<tr>
<td>Coun 509</td>
<td>Practicum: Group Counseling</td>
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</tr>
<tr>
<td>Coun 509</td>
<td>Practicum: Counseling</td>
<td>6</td>
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<td>Coun 509</td>
<td>Practicum: Peer Supervision</td>
<td>2</td>
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<tr>
<td>Coun 531</td>
<td>Foundations of Substance Abuse Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 543</td>
<td>Interpersonal Relations II</td>
<td>3</td>
</tr>
<tr>
<td>Coun 551</td>
<td>Theories and Interventions I</td>
<td>3</td>
</tr>
<tr>
<td>Coun 566</td>
<td>Appraisal Instruments</td>
<td>1</td>
</tr>
<tr>
<td>Coun 567</td>
<td>Using Tests in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 568</td>
<td>Career and Lifestyle Planning</td>
<td>3</td>
</tr>
<tr>
<td>Coun 569</td>
<td>Developmental Foundations of Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 570</td>
<td>Ethical and Legal Issues in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 571</td>
<td>Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 580</td>
<td>Supervision</td>
<td>1</td>
</tr>
<tr>
<td>Coun 581</td>
<td>Multicultural Perspectives in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 582</td>
<td>Research and Program Evaluation in Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal: 56

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>Coun 552</td>
<td>Theories and Interventions II</td>
<td>3</td>
</tr>
<tr>
<td>Coun 553</td>
<td>Advanced Therapeutic Strategies</td>
<td>3</td>
</tr>
<tr>
<td>Coun 575</td>
<td>Foundations of Couples, Marriage, and Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 586</td>
<td>Psychopharmacology and Mental Illness</td>
<td>3</td>
</tr>
<tr>
<td>Coun 587</td>
<td>Foundations of Mental Health Services</td>
<td>3</td>
</tr>
<tr>
<td>Coun 588</td>
<td>Diagnosis and Treatment Planning II</td>
<td>3</td>
</tr>
<tr>
<td>Coun 544</td>
<td>Consultation: Theory and Practice</td>
<td>2</td>
</tr>
<tr>
<td>Coun 546</td>
<td>Grief and Loss</td>
<td>2</td>
</tr>
<tr>
<td>Coun 572</td>
<td>Systemic Perspectives on Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>Coun 577</td>
<td>Family Therapy</td>
<td>3</td>
</tr>
<tr>
<td>Coun 578</td>
<td>Couples Therapy</td>
<td>3</td>
</tr>
<tr>
<td>Coun 593</td>
<td>Case Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
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</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coun 552</td>
<td>Theories and Interventions II</td>
<td>3</td>
</tr>
<tr>
<td>Coun 575</td>
<td>Foundations of Couples, Marriage, and Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 586</td>
<td>Psychopharmacology and Mental Illness</td>
<td>3</td>
</tr>
<tr>
<td>Coun 587</td>
<td>Foundations of Mental Health Services</td>
<td>3</td>
</tr>
<tr>
<td>Coun 588</td>
<td>Diagnosis and Treatment Planning II</td>
<td>3</td>
</tr>
<tr>
<td>Coun 590</td>
<td>Foundation of Rehabilitation Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 591</td>
<td>Medical Aspects of Disability</td>
<td>3</td>
</tr>
<tr>
<td>Coun 592</td>
<td>Psychosocial Aspects of Disability</td>
<td>3</td>
</tr>
<tr>
<td>Coun 593</td>
<td>Case Management</td>
<td>3</td>
</tr>
<tr>
<td>Coun 594</td>
<td>Occupational Analysis/Vocational Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>Coun 595</td>
<td>Contemporary Issues and Applications in Rehabilitation Counseling</td>
<td>3</td>
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<tr>
<td></td>
<td>Elective</td>
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</tbody>
</table>

**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 counseling specialization requires the completion of the following 90 credits:

### Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Coun 572</td>
<td>Systemic Perspectives on Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>Coun 573</td>
<td>Contemporary Couples, Marriage, and Family Systems</td>
<td>3</td>
</tr>
<tr>
<td>Coun 574</td>
<td>Family Life Cycle and Transitions</td>
<td>3</td>
</tr>
<tr>
<td>Coun 575</td>
<td>Foundations of Couples, Marriage, and Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 597</td>
<td>Family Therapy</td>
<td>3</td>
</tr>
<tr>
<td>Coun 578</td>
<td>Couples Therapy</td>
<td>3</td>
</tr>
<tr>
<td>Coun 579</td>
<td>Advanced Systemic Interventions: Couples and Families</td>
<td>3</td>
</tr>
<tr>
<td>Coun 555</td>
<td>Counseling Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>Coun 588</td>
<td>Diagnosis and Treatment Planning II</td>
<td>3</td>
</tr>
<tr>
<td>Coun 544</td>
<td>Consultation: Theory and Practice</td>
<td>2</td>
</tr>
<tr>
<td>Coun 546</td>
<td>Grief and Loss</td>
<td>2</td>
</tr>
</tbody>
</table>

**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. The 77 credit program is for individuals who enter the program with two years of teaching experience. Students who cannot document two years of teaching experience must complete a 6-credit, 200-hour effective teaching sequence to obtain licensure as a school counselor (see “Licensure”).

### Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coun 527</td>
<td>Counseling Individuals with Diverse Needs</td>
<td>3</td>
</tr>
<tr>
<td>Coun 545</td>
<td>Youth at Risk</td>
<td>3</td>
</tr>
<tr>
<td>Coun 547</td>
<td>Legal &amp; Ethical Issues in School Counseling</td>
<td>1</td>
</tr>
<tr>
<td>Coun 555</td>
<td>Counseling Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>Coun 576</td>
<td>Parents, Families, and Communities in Schools</td>
<td>3</td>
</tr>
<tr>
<td>Coun 589</td>
<td>Action Research in Counseling</td>
<td>1-2</td>
</tr>
<tr>
<td>Coun 596</td>
<td>Foundations of School Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: 75**

Coun 589 is taken three terms: 2 credits fall, 1 credit winter, 2 credits spring for a total of 5 credits.

### OPTION IV: SPECIAL EDUCATION

The Graduate School of Education offers comprehensive programs for the professional preparation of students in special education. A master’s degree in special education may be completed in conjunction with state licensure in special education or may be completed independently. For licensing information see “Programs Leading to Licensure: Special Education” on Special Education Licensure Programs.

Students completing a master’s degree must complete the special education master’s degree core program. The master’s core must total at least 9 credits. The remaining credits are drawn from the special education licensure program or other courses approved by the advisor. No more than 6 credits of 800-level courses may be used, and courses numbered 808 are not allowed. The master’s degree without Oregon licensure must total at least 45 credits (which includes the master’s core).

### Core Courses

Students must complete SpEd 596 Topics in Special Education Research before SpEd 597 Topics in Special
Education Issues and Practices. Topics such as Literacy, English Language Learners, Positive Behavior Intervention Supports, and Students with Significant Disabilities are offered. Students must fulfill a capstone experience by choosing either to complete a special project (SpEd 506) or a master’s thesis (SpEd 503) under the direction of a faculty advisor. The special project (SpEd 506) must include a written product and presentation and align with the topic area chosen for SpEd 597. With advisor approval students may take up to 9 credits of SpEd 596 and 9 credits of SpEd in three topic areas. Students opting to complete a thesis will follow Portland State University theses guidelines. Students are required to enroll in 3-6 credits of Special Project (SpEd 506) or 6-9 credits of Thesis (SpEd 503).

The master’s degree program includes:

Advisor approved courses (from licensure program or electives) 30-36
SpEd 596 Topics in Special Education Research 3
SpEd 597 Topics in Special Education Issues and Practices 3

A combination of the following:

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

Option 1:

SpEd 596 Topics in Special Education Research 3
SpEd 597 Topics in Special Education Issues and Practices 3

A combination of the following:

SpEd 503 Thesis 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lib 509</td>
<td>Initial Practicum</td>
<td>3</td>
</tr>
<tr>
<td>Lib 530</td>
<td>Literature Promotion Programs, K-12</td>
<td>3</td>
</tr>
<tr>
<td>Lib 534</td>
<td>Administration of the School Library Media Center</td>
<td>3</td>
</tr>
<tr>
<td>Lib 536</td>
<td>Design and Production of Instructional Media</td>
<td>3</td>
</tr>
<tr>
<td>Lib 541</td>
<td>Reference and Information Systems and Services</td>
<td>3</td>
</tr>
<tr>
<td>Lib 542</td>
<td>Collection Development and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>Lib 547</td>
<td>Library Media Instructional Programs, K-12</td>
<td>3</td>
</tr>
<tr>
<td>Lib 548</td>
<td>Organization of Library Media Collections</td>
<td>3</td>
</tr>
<tr>
<td>Lib 561</td>
<td>Practicum Elementary Library Media Center</td>
<td>3</td>
</tr>
<tr>
<td>Lib 562</td>
<td>Practicum Middle or Junior High Library Media Center</td>
<td>3</td>
</tr>
<tr>
<td>Lib 563</td>
<td>Practicum High School Library Media Center</td>
<td>3</td>
</tr>
<tr>
<td>Lib 573</td>
<td>Advanced Methods and Procedures in School</td>
<td>3</td>
</tr>
</tbody>
</table>
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; special and counselor education. Each student is admitted to one of the three 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. 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. Continuous enrollment is required.

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. Courses numbered 800 or above are not allowed.

Leadership core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 620</td>
<td>Doctoral Studies Proseminar</td>
<td>1-4</td>
</tr>
<tr>
<td>Ed 630</td>
<td>Principles and Practices of Learning</td>
<td>4</td>
</tr>
<tr>
<td>Ed 640</td>
<td>Organizational and Leadership</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

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 core 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. Candidates must register for a minimum of three consecutive terms of full-time approved graduate study at PSU (at least 9 credits per term) through coursework, the study of practice (i.e., field-based work), credits by arrangement, and/or dissertation
Graduate Certificates

ADDITIONS 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

Core Courses

Courses are designed to be taken in sequence. The Capstone class cannot be taken until the other classes have been successfully completed.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coun 536</td>
<td>Addictions Counseling Capstone</td>
<td>3</td>
</tr>
<tr>
<td>Coun 532</td>
<td>Assessment and Diagnosis of Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>Coun 531</td>
<td>Foundations of Substance Abuse Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Coun 533</td>
<td>Treatment of Substance Abuse I</td>
<td>3</td>
</tr>
<tr>
<td>Coun 534</td>
<td>Treatment of Substance Abuse II</td>
<td>3</td>
</tr>
<tr>
<td>Capstone Elective Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coun 535</td>
<td>Dual Diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>Coun 507</td>
<td>Addiction Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>Subtotal: 18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours: 18

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 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 592</td>
<td>Dynamic Models of Infant/Toddler Development</td>
<td>3</td>
</tr>
<tr>
<td>Coun 597</td>
<td>Strengths, Risk Factors, and Disturbance in Infants, Toddlers, and Their Families</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 594</td>
<td>Assessment Methods and Classification in Infant Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 595</td>
<td>Prevention and Intervention in Infant Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>Coun 507</td>
<td>Professional Development in Infant Mental Health</td>
<td>5</td>
</tr>
<tr>
<td>Subtotal: 17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coun 572</td>
<td>Systemic Perspectives on Human Sexuality</td>
<td>3</td>
</tr>
</tbody>
</table>
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
Or
ELP 536  Postsecondary Curriculum  4
Or
ELP 528  Leadership in Postsecondary Education  4

Culminating Experience
ELP 506  Culminating Project  2
Or
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
Or
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
Or
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

**Specialization Courses**

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

**Management**
- ELP 534 Leadership of the Training Function 3
- ELP 535 Organization Transformation through Training and Development 3

**Recommended Elective Courses**
- ELP 508 Project Management for Instructional Design Workshop 1
- ELP 508 Change Agentry Workshop 1
- ELP 508 Webinar and Synchronous Learning Workshop 1
- ELP 508 Social Media and Informal Learning Workshop 1
- ELP 508 Delivering Training 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 a one-year and two-year format. 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 [http://www.pdx.edu/ci/gtep-info](http://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 ITP 551 Research and Classroom Inquiry.

PROGRAM REQUIREMENTS

### Early childhood and elementary

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITP 514</td>
<td>Educating for Equity and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>ITP 534</td>
<td>Foundations of Culturally and Linguistically Responsive Practice at the Elementary Level</td>
<td>2</td>
</tr>
<tr>
<td>ITP 535</td>
<td>Cultivating Responsive Elementary Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>ITP 536</td>
<td>Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>ITP 538</td>
<td>Integrated Methods and Curriculum Design</td>
<td>6</td>
</tr>
<tr>
<td>ITP 539</td>
<td>Elementary Mathematics Methods</td>
<td>3</td>
</tr>
<tr>
<td>ITP 540</td>
<td>Foundations of Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ITP 541</td>
<td>Literacies in the Elementary Classroom</td>
<td>4</td>
</tr>
<tr>
<td>ITP 542</td>
<td>Integrated Elementary Science Methods</td>
<td>2</td>
</tr>
<tr>
<td>ITP 543</td>
<td>Professional Collaboration in Elementary Education</td>
<td>1-3</td>
</tr>
<tr>
<td>ITP 544</td>
<td>Clinical Support for Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ITP 545 or 548</td>
<td>Student Teaching I</td>
<td>3*</td>
</tr>
<tr>
<td>ITP 546 or 549</td>
<td>Student Teaching II</td>
<td>6*</td>
</tr>
</tbody>
</table>
ITP 547 or 550  
ITP 551  
ED 518  
Research and Classroom Inquiry 1-4  
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  
509  
ITP 511  
ITP 512  
ITP 513  
ITP 514  
ITP 515  
ITP 516  
ITP 517  
ITP 518  
ITP 520  
ITP 521-528  
ITP 529  
ITP 530 or 532  
ITP 531 or 533  
ITP 551  
ED 519  
Initial Field Experience 3  
Classroom Management for Student Success 3  
Learning and the Learner 1-3  
Technology as a Tool for Learning 3  
Educating for Equity and Social Justice 3  
Foundations of Culturally and Linguistically Responsive Practice at the Secondary Level 3  
Engaging Young Adolescent Learners 3  
Or Engaging Adolescent Learners 3  
Assessment for Learning 2  
Literacies in the Disciplines 3  
Secondary Methods 10  
Professional Seminar -Secondary 1  
Student Teaching I 8*  
Student Teaching II 13*  
Research and Classroom Inquiry 1-4  
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, social studies, and speech. 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.

DUAL ELEMENTARY EDUCATION/SPECIAL EDUCATOR LICENSURE 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 Assessment for the Inclusive Educator 2  
Ed 531  Planning and Instruction for Students with Special Needs 3  
Ed 509  Practicum of Children/Youth 1-9  
ITP 514  Educating for Equity and Social Justice 3  
ITP 542  Integrated Elementary Science Methods 2  
ITP 538  Integrated Methods and Curriculum Design 2-6  
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 3
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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 543</td>
<td>Effective Tchg Strategies &amp; Materials for Working with Linguistically &amp; Culturally Diverse Studnts</td>
</tr>
<tr>
<td>Ed 507</td>
<td>Seminar I: Student Teaching</td>
</tr>
<tr>
<td>Ed 580</td>
<td>Adolescent Learners in Inclusive Settings</td>
</tr>
<tr>
<td>Ed 581</td>
<td>Inclusive Classroom Researcher</td>
</tr>
<tr>
<td>Ed 583</td>
<td>Study Skills and Learning Strategies</td>
</tr>
<tr>
<td>Ed 585</td>
<td>Instructional Planning for Inclusive Classrooms</td>
</tr>
<tr>
<td>Ed 586</td>
<td>Collaborative Teaching</td>
</tr>
<tr>
<td>Ed 587</td>
<td>Inclusive Educational Research and Leadership</td>
</tr>
<tr>
<td>ITP 511</td>
<td>Classroom Management for Student Success</td>
</tr>
<tr>
<td>ITP 514</td>
<td>Educating for Equity and Social Justice</td>
</tr>
<tr>
<td>ITP 521-528</td>
<td>Secondary Methods</td>
</tr>
<tr>
<td>SpEd 513</td>
<td>Classroom Based Assessment and Instructional Planning</td>
</tr>
<tr>
<td>SpEd 521</td>
<td>Behavior Management in the Classroom</td>
</tr>
</tbody>
</table>

Subtotal: 95

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 44-47 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 our Web site at www.pdx.edu/ci/btp.

**REQUIREMENTS**

<table>
<thead>
<tr>
<th>Early Childhood and Elementary Education</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 509 Practicum in ESL/Bilingual Education</td>
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</tr>
<tr>
<td>CI 443/543 Effective Strategies for Language Minority Students</td>
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<tr>
<td>CI 496/596 Second Language Acquisition &amp; Development for K-12 Educators</td>
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<tr>
<td>CI 497/597 Assessment of Language and Content Learning for K-12 English Learners</td>
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<td>ELP 465/565 School and Community Relations</td>
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<tr>
<td>ELP 466/566 Impact of Language and Culture</td>
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<tr>
<td>ELP 467/567 ESL/Bilingual Program Designs and Models</td>
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<tr>
<td>ITP 411/511 Classroom Management for Student Success</td>
<td>3</td>
</tr>
<tr>
<td>ITP 412/512 Learning and the Learner</td>
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</tr>
<tr>
<td>ITP 413/513 Technology as a Tool for Learning</td>
<td>3</td>
</tr>
<tr>
<td>ITP 516 Engaging Young Adolescent Learners</td>
<td>3</td>
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<tr>
<td>Or ITP 517 Engaging Adolescent Learners</td>
<td>3</td>
</tr>
<tr>
<td>ITP 421/521 Secondary Methods</td>
<td>8</td>
</tr>
<tr>
<td>- 428/528</td>
<td></td>
</tr>
<tr>
<td>ITP 530 or 532 Student Teaching I</td>
<td>4*</td>
</tr>
<tr>
<td>ITP 531 or 533 Student Teaching II</td>
<td>9*</td>
</tr>
<tr>
<td>ITP 551 Research and Classroom Inquiry</td>
<td>4**</td>
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<tr>
<td>ITP 452/552 Reflective Practitioner</td>
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<td>ITP 453/553 Planning, Assessment, and Curriculum</td>
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<td>ITP 454/554 Professional Development and Reflection</td>
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<td>ITP 455/555 Language and Literacy Development of Diverse Learners</td>
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<td>SpEd Working with LEP with Special Needs</td>
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<table>
<thead>
<tr>
<th>Middle Level and High School</th>
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<tbody>
<tr>
<td>CI 509 Practicum in ESL/Bilingual Education</td>
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<tr>
<td>CI 443/543 Effective Strategies for Language Minority Students</td>
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<tr>
<td>CI 496/596 Second Language Acquisition &amp; Development for K-12 Educators</td>
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<tr>
<td>CI 497/597 Assessment of Language and Content Learning for K-12 English Learners</td>
<td>2</td>
</tr>
<tr>
<td>ELP 465/565 School and Community Relations</td>
<td>3</td>
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<tr>
<td>ELP 466/566 Impact of Language and Culture</td>
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<tr>
<td>ELP 467/567 ESL/Bilingual Program Designs and Models</td>
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<td>ITP 411/511 Classroom Management for Student Success</td>
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<td>ITP 412/512 Learning and the Learner</td>
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<tr>
<td>ITP 413/513 Technology as a Tool for Learning</td>
<td>3</td>
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<tr>
<td>ITP 516 Engaging Young Adolescent Learners</td>
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</tr>
<tr>
<td>Or ITP 517 Engaging Adolescent Learners</td>
<td>3</td>
</tr>
<tr>
<td>ITP 421/521 Secondary Methods</td>
<td>8</td>
</tr>
<tr>
<td>- 428/528</td>
<td></td>
</tr>
<tr>
<td>ITP 530 or 532 Student Teaching I</td>
<td>4*</td>
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<tr>
<td>ITP 531 or 533 Student Teaching II</td>
<td>9*</td>
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</table>

| Subtotal: 55-69 |

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

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

**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.

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**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 511</td>
<td>Classroom Management</td>
<td>1 - 3</td>
</tr>
<tr>
<td>CI 512</td>
<td>Teaching and Learning</td>
<td>1 - 3</td>
</tr>
<tr>
<td>CI 513</td>
<td>Classroom Instruction and Technology</td>
<td>2-5</td>
</tr>
<tr>
<td>CI 514</td>
<td>Multicultural and Urban Education</td>
<td>1-3</td>
</tr>
<tr>
<td>CI 516</td>
<td>Integrated Methods I</td>
<td>1-5</td>
</tr>
<tr>
<td>Lib 530</td>
<td>Literature Promotion Programs, K-12</td>
<td>3</td>
</tr>
<tr>
<td>Lib 534</td>
<td>Administration of the School Library Media Center</td>
<td>3</td>
</tr>
<tr>
<td>Lib 536</td>
<td>Design and Production of Instructional Media</td>
<td>3</td>
</tr>
<tr>
<td>Lib 541</td>
<td>Reference and Information Systems and Services</td>
<td>3</td>
</tr>
<tr>
<td>Lib 542</td>
<td>Collection Development and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>Lib 548</td>
<td>Organization of Library Media Collections</td>
<td>3</td>
</tr>
<tr>
<td>Lib 554</td>
<td>Student Teaching I</td>
<td>6</td>
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<tr>
<td>Lib 555</td>
<td>Student Teaching II</td>
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<tr>
<td>Choose One:</td>
<td>Reading and Composition in the Content Areas</td>
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</tbody>
</table>

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 coursework, 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 website 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**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 443</td>
<td>Effective Tchg Strategies &amp; Materials for Working with Linguistically &amp; Culturally Diverse Stdnts</td>
<td>3</td>
</tr>
<tr>
<td>CI 496</td>
<td>Second Language Acquisition and</td>
<td>3</td>
</tr>
</tbody>
</table>
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 (29 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lib 509</td>
<td>Practicum</td>
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</tr>
<tr>
<td>Lib 530</td>
<td>Literature Promotion Programs, K-12</td>
<td>3</td>
</tr>
<tr>
<td>Lib 534</td>
<td>Administration of the School Library Media Center</td>
<td>3</td>
</tr>
<tr>
<td>Lib 536</td>
<td>Design and Production of Instructional Media</td>
<td>3</td>
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<tr>
<td>Lib 541</td>
<td>Reference and Information Systems and Services</td>
<td>3</td>
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<tr>
<td>Lib 542</td>
<td>Collection Development and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>Lib 547</td>
<td>Library Media Instructional Programs, K-12</td>
<td>3</td>
</tr>
<tr>
<td>Lib 548</td>
<td>Organization of Library Media Collections</td>
<td>3</td>
</tr>
<tr>
<td>Lib 561</td>
<td>Practicum Elementary Library Media Center Or</td>
<td>3</td>
</tr>
<tr>
<td>Lib 562</td>
<td>Practicum Middle or Junior High Library Media Center Or</td>
<td>3</td>
</tr>
<tr>
<td>Lib 563</td>
<td>Practicum High School Library Media Center</td>
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</tr>
</tbody>
</table>

Subtotal: 22

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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ELP 569</td>
<td>Introduction to Educational Administration</td>
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<tr>
<td>ELP 511</td>
<td>Principles of Educational Research and Data Analysis I</td>
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**Core:**

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<th>Title</th>
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<tbody>
<tr>
<td>ELP 570</td>
<td>Human Relations and Educational Foundations</td>
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<tr>
<td>ELP 571</td>
<td>Teaching, Learning, and Curriculum</td>
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<tr>
<td>ELP 572</td>
<td>Human Resource Development and Organizational Change</td>
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<tr>
<td>ELP 573</td>
<td>Educational Leadership Project I</td>
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<tr>
<td>ELP 574</td>
<td>Education Leadership Project II</td>
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<tr>
<td>ELP 575</td>
<td>Educational Leadership Project III</td>
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<tr>
<td>ELP 509</td>
<td>Administrative Practicum</td>
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</table>

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 Leadership 4
ELP 580 District Policy, Operations, Facilities, and Finance 4
ELP 581 U.S. and Oregon School Law and Policy 4
ELP 506 CAL-Special Problems 4

Subtotal: 28

Students who completed an earlier licensure program prior to 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 literacy education faculty have designed a program that works to develop classroom teachers, reading specialists, literacy coaches, and district reading personnel whose practice grows out of a solid grounding in literacy theory and research. This includes consideration of:

• Best practices and national and literacy standards.
• The variety of methodologies and resources available for creating classroom literacy environments.
• Principles and practices of working with students needing extra help with literacy.
• Authentic assessment practices.
• Leadership in literacy program/curriculum development and implementation.

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 Struggling Elementary Readers 3
CI 530 Teaching Struggling Adolescent Readers 3

Practicum (3 credits)
CI 509 Practicum: Reading Endorsement 1-9
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.
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 speciality 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 webpage 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: for either elementary or secondary authorizations
- Added Special Educator Endorsement (AddSPED): for licensed teachers adding a Special Educator endorsement
- 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**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpEd 510</td>
<td>Foundations of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Legal &amp; Ethical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Classroom Assessment, Instruction, &amp; Behavior Management</td>
<td>4</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Math Assessment &amp; Instruction</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 509</td>
<td>Professional Introduction to the Start of the School Year</td>
<td>2</td>
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<tr>
<td>SpEd 510</td>
<td>Reading Assessment &amp; Instruction</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 521</td>
<td>Behavior Management in the Classroom</td>
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<td>SpEd 509</td>
<td>Practicum: Academic Skills Focus</td>
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<tr>
<td>SpEd 510</td>
<td>Curriculum &amp; Assessment for Students with DD/ASD-I</td>
<td>4</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Curriculum &amp; Instruction for Students with DD/ASD-II</td>
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<tr>
<td>SpEd 509</td>
<td>Practicum: Functional Life Skills Focus</td>
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<td>SpEd 510</td>
<td>Families &amp; Advocacy</td>
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<tr>
<td>SpEd 510</td>
<td>IEP &amp; Collaborative Teaming</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Assessment</td>
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<td>SpEd 510</td>
<td>Reading &amp; Writing across the Continuum</td>
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<tr>
<td>SpEd 525</td>
<td>Student Teaching</td>
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<tr>
<td>SpEd 507</td>
<td>Student Teaching Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpEd 510</td>
<td>Legal &amp; Ethical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Math Assessment &amp; Instruction</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Reading Assessment &amp; Instruction</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 521</td>
<td>Behavior Management in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 509</td>
<td>Literacy Work Sample Practicum &amp; Seminar</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Curriculum &amp; Assessment for Students with DD/ASD-I</td>
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<tr>
<td>SpEd 510</td>
<td>Curriculum &amp; Instruction for Students with DD/ASD-II</td>
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<tr>
<td>SpEd 509</td>
<td>Functional Practicum &amp; Seminar</td>
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<td>SpEd 510</td>
<td>Families &amp; Advocacy</td>
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<td>SpEd 510</td>
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<td>SpEd 510</td>
<td>Reading &amp; Writing across the Continuum</td>
<td>4</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Classroom Assessment, Instruction, and Behavior Management</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

For current prerequisites, please see: http://www.pdx.edu/sped/prerequisites-and-tests-vil

**REQUIREMENTS**

<table>
<thead>
<tr>
<th>Courses</th>
<th>STE I Visually Impaired</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpEd 509</td>
<td>STE II Visually Impaired</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 510</td>
<td>Legal and Ethical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 520</td>
<td>Collaboration I: Families and Community - EL and EI/SE</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 521</td>
<td>Behavior Management in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 525</td>
<td>Student Teaching</td>
<td>6-15</td>
</tr>
<tr>
<td>SpEd 540</td>
<td>Education of the Visually Impaired Learner</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 541</td>
<td>Implications of Vision Problems of Children/Youth</td>
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<tr>
<td>SpEd 542</td>
<td>Assessment of the Visually Impaired</td>
<td>3</td>
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<tr>
<td>SpEd 543</td>
<td>Reading and Literacy - Visually Impaired Learners</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 544</td>
<td>Methods of Teaching Academics: Visually Impaired Learner</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 545</td>
<td>Orientation and Mobility/Life Skills</td>
<td>3</td>
</tr>
<tr>
<td>SpEd 546</td>
<td>Braille I</td>
<td>3</td>
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<td>SpEd 547</td>
<td>Braille II</td>
<td>2</td>
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<tr>
<td>SpEd 575</td>
<td>Braille III/Technology for the Visually Impaired</td>
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<tr>
<td>SpEd 576</td>
<td>Visually Impaired Learner with Additional Disabilities</td>
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</table>

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**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Experimental Course</th>
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<tbody>
<tr>
<td>Ed 510</td>
<td>Play: Curriculum in Early Childhood Education</td>
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<tr>
<td>CI 571</td>
<td>SpEd 509 Prac I: Supervised Field Experience</td>
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<td>SpEd 509</td>
<td>Prac II: Supervised Field Experience</td>
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<tr>
<td>SpEd 510</td>
<td>Literacy EI/SE</td>
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</tr>
<tr>
<td>SpEd 520</td>
<td>Collaboration I: Families and Community - EL and EI/SE</td>
<td>3</td>
</tr>
<tr>
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<td>Student Teaching</td>
<td>6-15</td>
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<tr>
<td>SpEd 507</td>
<td>Seminar</td>
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<tr>
<td>SpEd 580</td>
<td>Introduction to Early Intervention/Early Childhood Special Education</td>
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<td>SpEd 581</td>
<td>Family Guided Early Intervention</td>
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<td>SpEd 582</td>
<td>Specialized Techniques: Early Intervention/Early Childhood Special Education</td>
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<td>SpEd 583</td>
<td>Communication and Language Development: EI/SE (Early Intervention/Early Childhood Special Education)</td>
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<td>Instructional Strategies I: EI/SE</td>
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<td>SpEd 586</td>
<td>Instructional Strategies II: EI/SE</td>
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</tbody>
</table>

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 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
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 Engineering
• Graduate Certificate in Hydrology
• Graduate Certificate in Sustainability

Civil and environmental engineers plan, design, and manage the construction and operation of public and private facilities, including highways and transportation systems, water and wastewater distribution systems, power plants, buildings, and dams. 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. In addition 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  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, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223
Ph 215  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
Ph 216  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
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
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  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, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
   Ph 215 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
   Ph 216 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
   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
   EAS 211 Statics  4
   EAS 212 Strength of Materials  4
   EAS 215 Dynamics  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.
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:
   a. Individual course grades and GPA for required lower-division courses.
   b. Schools attended.
   c. Other course grades and overall GPA.
   d. Other factors including engineering job experience, participation in PSU engineering organizations, and other extra-curricular activities.

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) 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. Students will be placed on probation when their term GPA is below 2.00 or their progress toward the degree is less than 12 credits per academic year.

3. Students placed on probation for two consecutive terms or for a total of three terms will be suspended from their degree program. Students also will be suspended if not enrolled in engineering courses for three consecutive terms.

4. Students who are suspended must wait at least one term before reapplying.

**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.

**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/undergraduate-programs. 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 and an additional copy to the Department of Civil and Environmental Engineering.

**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.

**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.

The BSCE curriculum at Portland State University 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.

**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 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 chair of the department.

Transfer students should follow the requirements as listed under the "Eligibility - BSCE" section above.

### Freshman Year

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<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tr>
<td>CE 111</td>
<td>Introduction to Civil and Environmental Engineering</td>
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<tr>
<td>CE 112</td>
<td>Civil and Environmental Engineering Computations</td>
<td>3</td>
</tr>
<tr>
<td>CE 115</td>
<td>Civil Engineering Drawing and Spatial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 222</td>
<td>General Chemistry II</td>
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</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
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<tr>
<td>Ch 228</td>
<td>General Chemistry Laboratory</td>
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<tr>
<td>Mth 251</td>
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<td>Mth 252</td>
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<td>Mth 261</td>
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### Sophomore Year

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<td>EAS 211</td>
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<td>EAS 212</td>
<td>Strength of Materials</td>
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<tr>
<td>EAS 215</td>
<td>Dynamics</td>
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</tr>
<tr>
<td>CE 211</td>
<td>Plane Surveying and Mapping</td>
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<td>CE 212</td>
<td>Field Problems in Plane Surveying</td>
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<tr>
<td>Mth 254</td>
<td>Calculus IV</td>
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<tr>
<td>Mth 256</td>
<td>Applied Differential Equations I</td>
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<tr>
<td>Ph 221</td>
<td>General Physics (with Calculus)</td>
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<td>General Physics (with Calculus)</td>
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<td>Ph 223</td>
<td>General Physics (with Calculus)</td>
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<tr>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph</td>
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<td>Lab for Ph 201, 202, 203 or Ph</td>
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<td>Ph 216</td>
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**Subtotal:** **60**

### Junior Year

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<tr>
<td>CE 321</td>
<td>CEE Properties of Materials</td>
<td>4</td>
</tr>
<tr>
<td>CE 361</td>
<td>Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>CE 324</td>
<td>Elementary Structural Analysis</td>
<td>4</td>
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<td>CE 325</td>
<td>Indeterminate Structures</td>
<td>4</td>
</tr>
<tr>
<td>CE 341</td>
<td>Soil Classification and Properties</td>
<td>4</td>
</tr>
<tr>
<td>CE 351</td>
<td>Introduction to Transportation Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CE 362</td>
<td>Engineering Hydraulics</td>
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<td>CE 364</td>
<td>Water Resources Engineering</td>
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<tr>
<td>CE 371</td>
<td>Environmental Engineering</td>
<td>4</td>
</tr>
<tr>
<td>G 301</td>
<td>Geology for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ME 321</td>
<td>Engineering Thermodynamics I</td>
<td>4</td>
</tr>
<tr>
<td>Stat 451</td>
<td>Applied Statistics for Engineers and Scientists I</td>
<td>4</td>
</tr>
<tr>
<td>Ec 314</td>
<td>Private and Public Investment Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

**Subtotal:** **60**

### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 444</td>
<td>Geotechnical Design</td>
<td>4</td>
</tr>
<tr>
<td>CE 454</td>
<td>Urban Transportation Systems</td>
<td>4</td>
</tr>
<tr>
<td>CE 484</td>
<td>Civil Engineering Project</td>
<td>3</td>
</tr>
<tr>
<td>CE 494</td>
<td>Civil Engineering Project</td>
<td>3</td>
</tr>
<tr>
<td>CE 432</td>
<td>Structural Steel Design-LRFD Method</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Approved civil engineering electives</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>Upper-division cluster</td>
<td>8</td>
</tr>
</tbody>
</table>

**Subtotal:** **75**

**Approved Civil Engineering Electives:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 401</td>
<td>Research</td>
<td>1-6</td>
</tr>
<tr>
<td>CE 403</td>
<td>Honors Thesis</td>
<td>1-4</td>
</tr>
<tr>
<td>CE 404</td>
<td>Cooperative Education/Internship</td>
<td>1-12</td>
</tr>
<tr>
<td>CE 405</td>
<td>Reading and Conference</td>
<td>1-6</td>
</tr>
<tr>
<td>CE 406</td>
<td>Special Projects</td>
<td>1-6</td>
</tr>
<tr>
<td>CE 407</td>
<td>Seminar</td>
<td>1-6</td>
</tr>
<tr>
<td>CE 410-499</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CE 510-599</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Courses outside CEE Department require prior approval of CEE Chair.
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, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – 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 responsibilities of engineers in a broad societal context.

(G) An ability to communicate effectively.

(H) An ability to participate in projects that cross disciplines and to function on multi-disciplinary teams.

(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 chair of the department.

Transfer students should follow the requirements as listed under the "Eligibility - BSENVE" section above.

Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 111</td>
<td>Introduction to Civil and Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 112</td>
<td>Civil and Environmental Engineering Computations</td>
<td>3</td>
</tr>
<tr>
<td>CE 115</td>
<td>Civil Engineering Drawing and Spatial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Ch 222</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 228</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 256</td>
<td>Introduction to Linear Algebra</td>
<td>0-4</td>
</tr>
<tr>
<td>Bi 234</td>
<td>Elementary Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 235</td>
<td>Microbiology Laboratory</td>
<td>2</td>
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<tr>
<td></td>
<td>Freshman Inquiry</td>
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**Subtotal: 52**

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EAS 211</td>
<td>Statics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EAS 212</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EAS 215</td>
<td>Dynamics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Mth 254</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Mth 256</td>
<td>Applied Differential Equations I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Ph 221</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ph 222</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ph 223</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
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<tr>
<td></td>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213</td>
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<td></td>
<td>Ph 215</td>
<td>Lab for Ph 201, 202, 203 or Ph 221, 222, 223</td>
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<td>Ph 216</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td>Sophomore Inquiry</td>
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</table>

**Subtotal: 44**

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ESM 320</td>
<td>Analysis of Environmental Systems I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ESM 321</td>
<td>Analysis of Environmental Systems II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ESM 322</td>
<td>Environmental Risk Assessment</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ESM 323</td>
<td>Environmental Systems Laboratory</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>ESM 324</td>
<td>Environmental Systems Laboratory</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>ESM 325</td>
<td>Environmental Risk Assessment Lab</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>ME 321</td>
<td>Engineering Thermodynamics I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CE 315</td>
<td>The Civil and Environmental Engineering Profession</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>CE 345</td>
<td>Environmental Soil Mechanics</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CE 361</td>
<td>Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CE 362</td>
<td>Engineering Hydraulics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CE 364</td>
<td>Water Resources Engineering</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CE 371</td>
<td>Environmental Engineering</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>G 301</td>
<td>Geology for Engineers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Stat 451</td>
<td>Applied Statistics for Engineers and Scientists I</td>
<td>4</td>
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</table>

**Subtotal: 48**

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CE 474</td>
<td>Unit Operations of Environmental Engineering</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CE 480</td>
<td>Chemistry of Environmental Toxins</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CE 484</td>
<td>Civil Engineering Project Management and Design I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CE 494</td>
<td>Civil Engineering Project Management and Design II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ec 314</td>
<td>Private and Public Investment Analysis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Upper-division cluster</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approved Environmental Engineering Electives</td>
<td>18</td>
</tr>
</tbody>
</table>

**Subtotal: 44**

Ec 314 is a required course that can be taken as 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 as follows (students are not restricted to these tracks and may select electives in any combination):

1. **Geoenvironmental:**
   - CE 440 Geosynthetics in Infrastructure Engineering
   - CE 445 Geo-environmental Engineering with Geosynthetics

2. **Subsurface hydrology and contaminant transport:**
   - CE 469 Subsurface Hydrology
   - CE 463 Transportation and Logistics Optimization and Modeling
   - CE 571 Subsurface Contaminant Transport

3. **Surface water hydrology:**
   - CE 464 Hydrologic and Hydraulic Modeling
   - CE 467 Hydrologic and Hydraulic Design
   - CE 565 Watershed Hydrology

4. **Surface water hydrodynamics and water quality**
   - CE 479 Fate and Transport of Toxics in the Environment
   - CE 481 The Columbia River as a System
   - CE 482 Introduction to Sediment Transport
   - CE 483 Estuarine Circulation
   - CE 572 Environmental Fluid Mechanical Transport
   - CE 576 Environmental Fluid Mechanics
   - CE 578 Water Quality Modeling

5. **Air quality:**
   - CE 488 Air Quality
   - Ph 375 Climate Change and Human Life
   - Ph 471 Atmospheric Physics
   - Ph 477 Air Pollution
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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 254 Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>Mth 256 Applied Differential Equations I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 221 General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 222 General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 223 General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 214 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 215 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 216 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ch 221 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 222 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227 General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 228 General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CE 361 Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>CE 362 Engineering Hydraulics</td>
<td>4</td>
</tr>
<tr>
<td>CE 364 Water Resources Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CE 371 Environmental Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CE 474 Unit Operations of Environmental Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

CEE DEPARTMENT INTERNSHIP PROGRAM

The CEE Department Internship Program partners high-performing students admitted to the BSCE and BSENVE Upper Division Programs with local employers. These paid internships are great opportunities for students to put their knowledge to work and earn money while gaining invaluable job experience.

The internship models vary depending on student schedules and employer needs, but in general are either a 6-month full-time internship, or a blend of full time-over the summer followed by a part-time internship during the academic year. Students apply during their junior year for internships starting summer or fall terms. More
information about the program and how to apply can be found on the website (http://pdx.edu/cee/ceeinternship).

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, computer programming, 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.

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. 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.
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.

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 adviser.

Non-degree seeking students may take Civil and
Environmental Engineering courses pass/no pass with the
consent of the instructor.

A minimum of 30 credit hours must be taken in the CEE
Department unless otherwise approved by the Graduate
Program Chair. To become a candidate for the MEng
degree, the student must successfully complete all
departmental requirements as described
above.

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**

- Priority Fall - First Monday of January (for strongest
  consideration for funding as a Graduate Research or
  Teaching Assistant)
1. A PhD student must complete the following departmental requirements:

2. Complete a minimum of two years of full-time graduate work (including coursework and thesis 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. Pass the comprehensive examination;

5. Present and pass a proposal defense for advancement to candidacy;

6. Complete 27 credit hours of dissertation credit (CE 603) leading to the completion of a doctoral dissertation;

7. Present and pass the final oral dissertation defense; and

8. Submit the written dissertation in compliance with University guidelines and deadlines.

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.

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
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 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 and schedules).
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.

Students not meeting these requirements 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 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**

<table>
<thead>
<tr>
<th>Freshman year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 162</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CS 163</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 201</td>
<td>Programming Systems</td>
<td>4</td>
</tr>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mth 261</td>
<td>Introduction to Linear Algebra</td>
<td>0-4</td>
</tr>
<tr>
<td>Freshman Inquiry</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Subtotal: 51

<table>
<thead>
<tr>
<th>Sophomore year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 201</td>
<td>Computer Systems Programming</td>
<td>4</td>
</tr>
<tr>
<td>II</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subtotal: 51
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 250</td>
<td>Discrete Structures I</td>
<td>4</td>
</tr>
<tr>
<td>CS 251</td>
<td>Discrete Structures II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Approved Laboratory Science</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Sophomore Inquiry</td>
<td>12</td>
</tr>
<tr>
<td><strong>Subtotal:</strong></td>
<td></td>
<td><strong>39</strong></td>
</tr>
</tbody>
</table>

**Junior year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 300</td>
<td>Elements of Software Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CS 305</td>
<td>Social, Ethical, and Legal Implications of Computing</td>
<td>2</td>
</tr>
<tr>
<td>CS 311</td>
<td>Computational Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 321</td>
<td>Languages and Compiler Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 322</td>
<td>Languages and Compiler Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 333</td>
<td>Introduction to Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CS 350</td>
<td>Algorithms and Complexity</td>
<td>4</td>
</tr>
<tr>
<td>Stat 451</td>
<td>Applied Statistics for Engineers and Scientists I</td>
<td>4</td>
</tr>
<tr>
<td>Wr 227</td>
<td>Introductory Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper-division cluster</td>
<td>12</td>
</tr>
<tr>
<td><strong>Subtotal:</strong></td>
<td></td>
<td><strong>46</strong></td>
</tr>
</tbody>
</table>

**Senior year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 469</td>
<td>Software Engineering Capstone</td>
<td>3</td>
</tr>
<tr>
<td>CS 470</td>
<td>Software Engineering Capstone</td>
<td>3</td>
</tr>
<tr>
<td>CS 486</td>
<td>Introduction to Database</td>
<td>4</td>
</tr>
<tr>
<td>ECE 341</td>
<td>Introduction to Computer</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Hardware</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Approved upper-division computer science electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Approved Math electives</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Approved Science elective</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Free electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Subtotal:</strong></td>
<td></td>
<td><strong>43</strong></td>
</tr>
</tbody>
</table>

EC 341: or equivalent.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 455</td>
<td>AI: Neural Networks I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 456</td>
<td>AI: NeuralNetworks II</td>
<td>4</td>
</tr>
<tr>
<td>ECE 485</td>
<td>Microprocessor System Design</td>
<td>4</td>
</tr>
<tr>
<td>ECE 486</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
</tbody>
</table>

except that no more than 4 credits may be taken from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 401</td>
<td>Research</td>
<td>1-6</td>
</tr>
<tr>
<td>CS 405</td>
<td>Reading and Conference</td>
<td>1-6</td>
</tr>
<tr>
<td>CS 406</td>
<td>Special Projects</td>
<td>1-6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 407</td>
<td>Seminar</td>
<td>1-6</td>
</tr>
<tr>
<td>CS 409</td>
<td>Practicum</td>
<td>1-9</td>
</tr>
</tbody>
</table>

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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 211</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 212</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 213</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 215</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 216</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
</tbody>
</table>

**Sequence 2:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 222</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 223</td>
<td>General Chemistry III</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 228</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 229</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

**Sequence 3:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 251</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 252</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 253</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 261</td>
<td>Introduction to Linear Algebra</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 311</td>
<td>Introduction to Mathematical Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 343</td>
<td>Applied Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Mth 344</td>
<td>Introduction to Group Theory and Applications</td>
<td>4</td>
</tr>
<tr>
<td>Mth 346</td>
<td>Number Theory</td>
<td>4</td>
</tr>
<tr>
<td>Mth 356</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Mth 457</td>
<td>The Mathematical Theory of Games</td>
<td>3</td>
</tr>
</tbody>
</table>
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 II  4
CS 202  Programming Systems  4
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.

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.

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. 47). 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. 50). 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
• M.Eng.—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 described on page <?>.

Qualifed 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 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 271  Digital Systems  4
   - Mth 251  Calculus I  0-4
   - Mth 252  Calculus II  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, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
   - Ph 215  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
   - Ph 216  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223 Freshman Inquiry  1

   Ph 211, Ph 212, and Ph 213 also accepted for Ph 221, Ph 222, and Ph 223

   Freshman Inquiry: Comm 100 or 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  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, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
   - Ph 215  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
   - Ph 216  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223 Freshman Inquiry  1

   Ph 211, Ph 212, and Ph 213 also accepted for Ph 221, Ph 222, and Ph 223

   Freshman Inquiry: Comm 100 or Comm 220, and Wr 121 for transfer students

2. Have a minimum major GPA of 2.25

(Major GPA is calculated 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 100, 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, electromagnetics, energy systems, microelectronics, power engineering, signal processing and digital/VLSI design. 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 171</td>
<td>Digital Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ECE 101</td>
<td>Exploring Electrical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ECE 102</td>
<td>Engineering Computation</td>
<td>4</td>
</tr>
<tr>
<td>ECE 103</td>
<td>Engineering Programming</td>
<td>4</td>
</tr>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 261</td>
<td>Introduction to Linear Algebra</td>
<td>0-4</td>
</tr>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Freshman Inquiry</td>
<td>15</td>
</tr>
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</table>

**Sophomore year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 221</td>
<td>Electric Circuit Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 222</td>
<td>Electric Circuit Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ECE 223</td>
<td>Electric Circuit Analysis III</td>
<td>4</td>
</tr>
<tr>
<td>ECE 271</td>
<td>Digital Systems</td>
<td>4</td>
</tr>
<tr>
<td>Mth 254</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>Mth 256</td>
<td>Applied Differential Equations I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 221</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 222</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 223</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>211, 212, 213 or Ph 221, 222, 223</td>
<td></td>
</tr>
<tr>
<td>Ph 215</td>
<td>Lab for Ph 201, 202, 203 or Ph</td>
<td>1</td>
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<tr>
<td></td>
<td>211, 212, 213 or Ph 221, 222, 223</td>
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</tr>
<tr>
<td>Ph 216</td>
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<td></td>
<td>211, 212, 213 or Ph 221, 222, 223</td>
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<tr>
<td></td>
<td>Sophomore Inquiry</td>
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</table>

**Junior year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 311</td>
<td>Feedback and Control</td>
<td>4</td>
</tr>
<tr>
<td>ECE 321</td>
<td>Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 322</td>
<td>Electronics II</td>
<td>4</td>
</tr>
<tr>
<td>ECE 323</td>
<td>Electronics III</td>
<td>4</td>
</tr>
<tr>
<td>ECE 331</td>
<td>Engineering Electromagnetics I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 332</td>
<td>Engineering Electromagnetics II</td>
<td>4</td>
</tr>
<tr>
<td>ECE 371</td>
<td>Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ECE 312</td>
<td>Fourier Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Stat 451</td>
<td>Applied Statistics for Engineers</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>and Scientists I</td>
<td></td>
</tr>
<tr>
<td>Wr 327</td>
<td>Technical Report Writing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper-division Math/Science elective</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Track specific junior electrical</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>engineering electives</td>
<td></td>
</tr>
</tbody>
</table>

**Track specific junior electrical engineering electives**

Students in the Energy Systems track take ECE 347 instead of ECE 323.

Wr 227 is accepted for transfer students only.

**Senior year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 411</td>
<td>Industry Design Processes</td>
<td>4</td>
</tr>
<tr>
<td>ECE 412</td>
<td>Senior Project Development I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 413</td>
<td>Senior Project Development II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Track specific senior electrical</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>engineering electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upper-division cluster</td>
<td>12</td>
</tr>
<tr>
<td>Ec 314</td>
<td>Private and Public Investment Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

**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 departmental website and it currently includes Analog/RF Circuits, Electro-magnetics, Energy Systems, Micro-electronics, Power Engineering, Signal Processing, and digital/VLSI tracks. The following omnibus numbered courses are excluded:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 401</td>
<td>Research</td>
<td>1-6</td>
</tr>
<tr>
<td>ECE 405</td>
<td>Reading and Conference</td>
<td>1-6</td>
</tr>
<tr>
<td>ECE 407</td>
<td>Seminar</td>
<td>1-6</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 101</td>
<td>Exploring Electrical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ECE 102</td>
<td>Engineering Computation</td>
<td>4</td>
</tr>
<tr>
<td>ECE 103</td>
<td>Engineering Programming</td>
<td>4</td>
</tr>
<tr>
<td>ECE 171</td>
<td>Digital Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ECE 221</td>
<td>Electric Circuit Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 222</td>
<td>Electric Circuit Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ECE 223</td>
<td>Electric Circuit Analysis III</td>
<td>4</td>
</tr>
<tr>
<td>ECE 271</td>
<td>Digital Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Freshman year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 171</td>
<td>Digital Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ECE 102</td>
<td>Engineering Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 162</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Freshman Inquiry</td>
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<tr>
<td><strong>Subtotal:</strong></td>
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<table>
<thead>
<tr>
<th>Sophomore year</th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 221</td>
<td>Electric Circuit Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 222</td>
<td>Electric Circuit Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>ECE 271</td>
<td>Digital Systems</td>
<td>4</td>
</tr>
<tr>
<td>CS 163</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>Mth 256</td>
<td>Applied Differential Equations I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 261</td>
<td>Introduction to Linear Algebra</td>
<td>0-4</td>
</tr>
<tr>
<td>Ph 221</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 222</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
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<tr>
<td>Ph 223</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
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</tr>
<tr>
<td>Ph 215</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
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</tr>
<tr>
<td><strong>Subtotal:</strong></td>
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<td>46</td>
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</table>

<table>
<thead>
<tr>
<th>Junior year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 321</td>
<td>Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 351</td>
<td>Hardware Description Languages and Prototyping</td>
<td>4</td>
</tr>
<tr>
<td>ECE 371</td>
<td>Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ECE 372</td>
<td>Microprocessor Interfacing and Embedded Systems</td>
<td>5</td>
</tr>
<tr>
<td>ECE 373</td>
<td>Embedded Operating Systems &amp; Device Drivers</td>
<td>5</td>
</tr>
<tr>
<td>CS 201</td>
<td>Computer Systems Programming II</td>
<td>4</td>
</tr>
<tr>
<td>CS 333</td>
<td>Introduction to Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>Mth 356</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Stat 451</td>
<td>Applied Statistics for Engineers and Scientists I</td>
<td>4</td>
</tr>
<tr>
<td>Wr 327</td>
<td>Technical Report Writing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper-division Math/Science elective</td>
<td>4</td>
</tr>
<tr>
<td><strong>Subtotal:</strong></td>
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<td>46</td>
</tr>
</tbody>
</table>

Wr 227 is accepted for transfer students only.

<table>
<thead>
<tr>
<th>Senior year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 411</td>
<td>Industry Design Processes</td>
<td>4</td>
</tr>
<tr>
<td>ECE 412</td>
<td>Senior Project Development I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 413</td>
<td>Senior Project Development II</td>
<td>2</td>
</tr>
<tr>
<td>ECE 485</td>
<td>Microprocessor System Design</td>
<td>4</td>
</tr>
<tr>
<td>ECE 486</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Track specific senior electrical engineering electives</td>
<td>16</td>
</tr>
<tr>
<td>Ec 314</td>
<td>Private and Public Investment Analysis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper-division cluster</td>
<td>8</td>
</tr>
<tr>
<td><strong>Subtotal:</strong></td>
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<td>46</td>
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</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Track specific senior computer engineering electives</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 401 Research</td>
<td>1-6</td>
<td></td>
</tr>
<tr>
<td>ECE 405 Reading and Conference</td>
<td>1-6</td>
<td></td>
</tr>
<tr>
<td>ECE 407 Seminar</td>
<td>1-6</td>
<td></td>
</tr>
</tbody>
</table>
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.
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.)
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 years 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. 47), 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

<table>
<thead>
<tr>
<th>Core courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM 520 Management of Engineering and Technology</td>
<td>4</td>
</tr>
<tr>
<td>ETM 522 Communication and Team</td>
<td>4</td>
</tr>
<tr>
<td>ETM 530 Decision Making</td>
<td>4</td>
</tr>
<tr>
<td>ETM 535 Advanced Engineering Economics</td>
<td>4</td>
</tr>
<tr>
<td>ETM 540 Operations Research</td>
<td>4</td>
</tr>
<tr>
<td>ETM 545 Project Management</td>
<td>4</td>
</tr>
<tr>
<td>ETM 555 Technology Marketing</td>
<td>4</td>
</tr>
</tbody>
</table>

Capstone requirement (one of the following; 4 credits or 8 credits with thesis option):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM 503 M.S. Thesis</td>
<td>8</td>
</tr>
<tr>
<td>ETM 506 Capstone Project</td>
<td>4</td>
</tr>
<tr>
<td>ETM 590 Engineering and Technology Management Synthesis</td>
<td>4</td>
</tr>
</tbody>
</table>

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-4: ETM-631 Technology Assessment and Acquisition, ETM-633 Technology Transfer.


(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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ME 120</td>
<td>An Introduction to Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 121</td>
<td>Introduction to Systems and Control</td>
<td>3</td>
</tr>
<tr>
<td>ME 122</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>EAS 211</td>
<td>Statics</td>
<td>4</td>
</tr>
<tr>
<td>EAS 212</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>EAS 215</td>
<td>Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>ECE 241</td>
<td>Introduction to Electrical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ECE 241L</td>
<td>Introduction to Electrical Engineering Lab</td>
<td></td>
</tr>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 254</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>Mth 256</td>
<td>Applied Differential Equations I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 261</td>
<td>Introduction to Linear Algebra</td>
<td>0-4</td>
</tr>
<tr>
<td>Ph 221</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 222</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 223</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 215</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 216</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Freshman Inquiry</td>
<td></td>
<td>69</td>
</tr>
</tbody>
</table>

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 in the following math, science and engineering courses: Mth 251, Mth 252, Mth 254, Mth 256, Mth 261, Ph 211, Ph 214, Ph 212, Ph 215, Ph 213, Ph 216, ME 120, ME 121, ME 122, EAS 211, EAS 212, EAS 215, ECE 241. 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

<table>
<thead>
<tr>
<th>Freshman year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 120 An Introduction to Engineering</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ME 121 Introduction to Systems and Control</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ME 122 Introduction to Design</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Ch 221 General Chemistry I</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Ch 222 General Chemistry II</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227 General Chemistry Laboratory</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Ch 228 General Chemistry Laboratory</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mth 251 Calculus I</td>
<td>0-4</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252 Calculus II</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Mth 261 Introduction to Linear Algebra</td>
<td>0-4</td>
<td>0-4</td>
</tr>
<tr>
<td>Freshman Inquiry</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Subtotal:</strong></td>
<td><strong>46</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore year</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 211 Statics</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>EAS 212 Strength of Materials</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>EAS 215 Dynamics</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>ME 213 Properties of Materials</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>ME 241 Manufacturing Processes</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>ECE 241 Introduction to Electrical Engineering</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Mth 254 Calculus IV</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Subtotal: 46
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, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223 1
PH 215  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223 1
PH 216  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 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 form 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
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. 47), 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. 47). 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 coursework 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. 47), 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, electroslag 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. 47), 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. 50), 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/.
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.


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. 216).)

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 Programming II 4
- 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, LINK 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 (limit of two courses; students may petition to take three).

The Challenge Program currently offers introductory college courses in English, 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/challenge-link/leap-into-new-knowledge-link/.

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. 216).)

**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**

118 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

The School of the Environment was formally established in 2009. This School is made up of four participating departments (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 Oregon Natural Heritage Information 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 specific courses:

**Course requirements**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESR 507/607</td>
<td>500/600-level seminars</td>
<td>6</td>
</tr>
<tr>
<td>ESR 630</td>
<td>Introduction to Transdisciplinary Modes of Critical Inquiry and Science in Environmental Research</td>
<td>3</td>
</tr>
<tr>
<td>ESR 655</td>
<td>Science Communication</td>
<td>1</td>
</tr>
</tbody>
</table>
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, or Geog 597. A student must also take one term of an Advisory Committee-approved environmental sociology course.

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 examination 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. The student should contact the appropriate department or program about the availability of these positions.

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 M.S.

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 Ph.D. program. 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

Admission is based on the applicant’s academic transcript, two letters of recommendation, a statement of interests and objectives, and other background material. GRE scores are recommended but not required. Students admitted to the Ph.D. program need not apply separately for admission to the master’s program, but must complete and submit a GO-19D form to the program.

DEGREE REQUIREMENTS

See general requirements for master’s degrees. In addition, students must meet the requirements below and submit the necessary Graduate Studies Office forms. All students will be required to complete 24 credits of graded courses (pass/no pass are not applicable) listed under Systems Science in the PSU catalog numbered SySc 510-599 or SySc 610-699. Up to 3 credits of SySc 507 (with a Pass grade) may be included to satisfy the 45 credit hour requirement. Note: There is a seven-year limit on courses for the master’s degree. This is not true for the Ph.D. The master’s program has three options:

1. Thesis option

An additional 12 credits of Systems Science courses (numbered as above) and/or approved courses from other departments (see document entitled, Approved Resource Courses for the Master of Science Program in Systems Science); and 9 thesis credits. A student selecting the thesis option must form a thesis committee of at least three faculty members (one of whom must be a Systems Science core faculty), and pass an oral thesis defense.
2. Examination option

An additional 21 credits of Systems Science courses (numbered as above) and/or approved courses from other departments (see document entitled Approved Resource Courses for the Master of Science Program in Systems Science). Up to 4 credits of Systems Science by-arrangement credits may be used to satisfy this requirement.

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. The comprehensive exam requirement is to be successfully completed within 5 years of admission to the master’s program. One of the examiners must be a Systems Science core faculty member. Students admitted to the Ph.D. program who pass their comprehensive exams meet this requirement automatically.

3. Coursework only option

An additional 8 credits of graded courses listed under Systems Science (numbered as above), plus 13 credits of courses that may be either Systems Science courses (numbered as above) or approved courses from other departments (see document entitled Approved Resource Courses for the Master of Science Program in Systems Science). Up to 4 credits of System Science by-arrangement credits may be used to satisfy this requirement.

SYSTEMS SCIENCE PH.D.

Strong emphasis on systems ideas and methods. Topics include systems thinking, system structure and dynamics, data modeling, computer simulation, networks, complex adaptive systems, decision analysis, and optimization. Subjects areas include environmental systems, sustainability, energy, health policy, biomedical data analysis, and other topics where systems ideas or methods make unique contributions to knowledge. (see Program documents on web for more information).

ADMISSION REQUIREMENTS

Students with a baccalaureate and/or master's degree should have a combined GRE score of at least 1150 (quantitative plus verbal) taken within the last five years. The Admissions Committee will consider exceptions to the five-year requirement if both GRE scores are in the 90th percentile or higher.

In considering an applicant for admission, the admissions committee seeks evidence of demonstrated intellectual capacity, undergraduate and/or graduate training in one or more appropriate disciplines, adequate preparation in mathematics and the potential to pursue advanced study and research for the Ph.D. The following are recommended as a technical background for the program (but not prerequisites for admission): calculus up to and including simple ODEs, statistics, including introductory multivariate, and programming and linear algebra at introductory levels. Students are admitted to the program in Fall Term.

Undergraduate GPA requirement is 3.0, and graduate GPA requirement, if applicable, is 3.25.

In addition to transcripts and test scores, the application requires three letters of recommendation, and a statement of personal goals.

Application materials are available online at www.pdx.edu/sysc. The Office of Admissions must receive:

(1) the completed Application to Doctoral Program form,
(2) the application fee,
(3) one copy of all undergraduate and graduate transcripts to be sent by the institutions to Portland State University, and
(4) TOEFL if a foreign student.

The applicant must arrange for Systems Science to receive:

(1) the completed Application to Doctoral Program form,
(2) one copy of all undergraduate and graduate transcripts to be sent by the institutions,
(3) GRE aptitude or GMAT scores,
(4) three letters of recommendation from faculty and/or professionals acquainted with the applicant's abilities and record,
(5) statement of the student's expectations of the program, and
(6) TOEFL score of 575 or other evidence of English competency if a foreign student.

Each applicant who has received formal notice of admission to the Systems Science Graduate Program should contact the Program office for initial advising. Adviser(s) will be appointed to assist and consult with the admitted student regularly in planning the program of study and research. A comprehensive examination committee is appointed for each student to give required oral and written examinations. A dissertation committee supervises the research and preparation of the dissertation.

DEGREE REQUIREMENTS

See University general requirements for doctoral degrees. Minimum requirements specific to the Ph.D. in Systems Science include 72 course credit hours, organized as follows:
Systems core component

Students are required to complete SySc 511 and SySc 513.

Additional coursework requirements

Beyond the systems core component described above, additional graduate courses are required to meet the 72 credit hour program minimum for advancement to candidacy, including 3 credits of SySc 507 (offered at 1 credit per term) and an additional 16-24 credits of Systems Science labeled courses beyond the core systems component, depending on the student’s track. Design of the student’s comprehensive exam and anticipated dissertation research should guide course selection.

Courses taken to satisfy the systems component and additional coursework requirements must be at the 500- or 600-level. Credit for graduate work done elsewhere (with a grade of B or better) may also be approved. However, at least 27 credits of coursework (not including dissertation credits) must be taken at Portland State University.

Decisions to transfer credits are made by the program director upon recommendation of the student’s adviser(s). There is no specific time limitation on when courses were taken; however, the student is expected to be familiar with, and may be examined on, material being given in current courses equivalent to those included in the comprehensive examination proposal.

Enrollment

Students are required to be enrolled continuously, except if a leave of absence is formally requested and approved by the Program director. Failure to take courses for a year, or failure to maintain continued progress after coursework is completed will result in a student being dropped from the program. At some point during their study all PSU doctoral students must meet a doctoral residency requirement consisting of registering full-time (at least 9 credit hours) for three consecutive quarters.

Comprehensive examinations

Written and oral comprehensive examinations are required in appropriate areas to demonstrate the breadth and depth of the student’s academic competence and expertise in research techniques pertinent to his/her intended dissertation area. Written exams cover three distinct areas representing at least 48 course credit hours, with each area including a minimum of 15 course credit hours. See the Systems Science Graduate Program Supplemental Rules for more details (available on the web).

Advancement to candidacy

All students must establish competency in appropriate research methodology before beginning their dissertation research. After this and all other requirements have been met, the student prepares a proposal for independent research leading to a significant and original contribution to knowledge in the systems field. When the proposal is accepted, the student is advanced to candidacy, and then focuses exclusively on research. Students must register for at least 27 credits of dissertation research after advancement to candidacy.

Dissertation

Completed research is presented in a dissertation which must be approved and successfully defended in a final oral examination. After Advancement to Candidacy, but prior to this examination, students are required to present their research at the SySc 507 Seminar, a pre-announced 50-minute formal presentation. The student can anticipate approximately four to five years of full-time study beyond the baccalaureate degree in order to satisfy the program requirements. Detailed additional information on requirements and procedures are contained in the document, “Systems Science Graduate Program Supplemental Rules,” and should be obtained by visiting our Web site: www.pdx.edu/sysc or contacting the Systems Science Graduate Program.

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. 7) 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 101</td>
<td>Introduction to Biological Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 102</td>
<td>Introduction to Archaeology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 103</td>
<td>Introduction to Social/Cultural Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 304</td>
<td>Social Theory</td>
<td>4</td>
</tr>
<tr>
<td>Anth 305</td>
<td>Cultural Theory</td>
<td>4</td>
</tr>
<tr>
<td>Anth 350</td>
<td>Archaeological Method and Theory</td>
<td>4</td>
</tr>
<tr>
<td>Anth 372</td>
<td>Human Variability</td>
<td>4</td>
</tr>
<tr>
<td>Anth 370</td>
<td>Paleoanthropology</td>
<td>5</td>
</tr>
<tr>
<td>Ling 232</td>
<td>Language and Society</td>
<td>4</td>
</tr>
<tr>
<td>Ling 233</td>
<td>Language and Mind</td>
<td>4</td>
</tr>
<tr>
<td>Stat 244</td>
<td>Introduction to Probability and Statistics II</td>
<td>4</td>
</tr>
</tbody>
</table>

Students earning the B.S. are required to take Stat 244

**ELECTIVE REQUIREMENTS**

Upper-division electives shall be selected from at least two subfields of anthropology (physical, socio-cultural, 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**
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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 101</td>
<td>Introduction to Biological Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 102</td>
<td>Introduction to Archaeology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 103</td>
<td>Introduction to Social/Cultural Anthropology</td>
<td>4</td>
</tr>
</tbody>
</table>

One of the following courses: (4-5 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 304</td>
<td>Social Theory</td>
<td>4</td>
</tr>
<tr>
<td>Anth 305</td>
<td>Cultural Theory</td>
<td>4</td>
</tr>
<tr>
<td>Anth 350</td>
<td>Archaeological Method and Theory</td>
<td>4</td>
</tr>
<tr>
<td>Anth 372</td>
<td>Human Variability</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anth 370</td>
<td>Paleoanthropology</td>
<td>5</td>
</tr>
</tbody>
</table>

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/policy track. The applied track is designed to prepare students for professional employment related to applied anthropology. Students in this track will complete an internship and internship paper, and 8 additional hours of coursework, in place of the traditional thesis. Interested students are urged to go to the Department’s Web site: www.pdx.edu/anthropology.

The thesis track candidate is required to do research in an area of special interest and prepare a thesis based upon it.

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 511</td>
<td>Core Seminar in Social and Cultural Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 550</td>
<td>Core Seminar in Archaeology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 570</td>
<td>Core Seminar in Physical Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 571</td>
<td>Graduate-level Anthropology</td>
<td>12</td>
</tr>
<tr>
<td>Electives</td>
<td>(3 courses)</td>
<td></td>
</tr>
<tr>
<td>Anth 501</td>
<td>Approved graduate-level electives (Anth, non-Anth)</td>
<td>8</td>
</tr>
<tr>
<td>Anth 501</td>
<td>An adviser-approved, graduate-level course in research methods</td>
<td>4</td>
</tr>
<tr>
<td>Anth 501</td>
<td>Thesis Research</td>
<td>4</td>
</tr>
<tr>
<td>Anth 503</td>
<td>Thesis</td>
<td>8</td>
</tr>
</tbody>
</table>

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
In addition to formal course requirements, the following must be charged against the four 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. Approval of a thesis topic or internship and the appointment of the graduate committee. The student develops a thesis or policy paper 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 or policy paper 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. Presentation and approval of thesis or policy paper.

6. Passing of an oral defense of thesis or policy paper.

**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
- M.A. in Teaching English to Speakers of Other Languages (TESOL)
• M.A.T and M.S.T. (General Arts and Letters)

Intensive English Language Program (IELP)
University Center Building (UCB), Suite 400
503-725-4088

www.pdx.edu/esl

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 (TESOL). It is also home to PSU’s Intensive English Language Program (IELP). The department also participates in the University’s M.A.T. and M.S.T. degree programs. For more information about degree programs, please contact Applied Linguistics.

The IELP provides English language instruction for English language learners who wish to improve their skills in English for academic, professional, or personal reasons. For questions about English-language instruction for learners at any level, please contact the IELP directly. Additional information about the IELP appears following the information on Applied Linguistics degree programs.

The B.A. major in Applied Linguistics provides a strong foundation in both analytical and communication skills while it builds 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 in Teaching English to Speakers of Other Languages 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. 7) 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 Language Structure Requirement 8 credits

Total credits for Applied Linguistics BA major 60 credits

REQUIRED COURSES 36 credits

300-level courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 390</td>
<td>Introduction to Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 391</td>
<td>Introduction to Applied Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 392</td>
<td>Structure of the English Language</td>
<td>4</td>
</tr>
</tbody>
</table>

400-level courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 407</td>
<td>Senior Seminar</td>
<td>4</td>
</tr>
<tr>
<td>Ling 411</td>
<td>Syntax</td>
<td>4</td>
</tr>
<tr>
<td>Ling 412</td>
<td>Phonology</td>
<td>4</td>
</tr>
<tr>
<td>Ling 414</td>
<td>Linguistic Pragmatics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 416</td>
<td>Discourse Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Ling 415</td>
<td>Linguistic Phonetics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 435</td>
<td>Theories and Practice in Applied Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 437</td>
<td>First Language Acquisition</td>
<td>4</td>
</tr>
<tr>
<td>Ling 438</td>
<td>Second Language Acquisition</td>
<td>4</td>
</tr>
</tbody>
</table>

ADVISER APPROVED ELECTIVES 16 Credits

To create a coherent program, students are encouraged to choose electives within a single focus and meet with a Ling adviser. 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 a Ling adviser.

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 programs they are interested in.**

**Required**
- Ling 432: Sociolinguistics 4

**Choose the remaining 12 credits from:**
- Ling 409: Community ESL Practicum 4
- Ling 414: Linguistic Pragmatics 4  
  Or  
- Ling 416: 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 482:Pidgins and Creoles 4  
  Or  
- Ling 410: Selected Topics 1-6

Ling 410 requires prior adviser approval.

**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 programs they are interested in. A formal logic course is strongly recommended.**

*For Traditional/Structural Linguistics focus, students should take Ling 420 Historical Comparative Linguistics and Ling 437 First Language Acquisition.*

**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: Psycholinguistics 4
- Ling 433: Psycholinguistics 4
- Ling 445: Linguistics and Cognitive Science 4
- Ling 476: Corpus Linguistics in Language Teaching 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 1-6

**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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 476</td>
<td>Corpus Linguistics in Language Teaching</td>
<td>4</td>
</tr>
<tr>
<td>Ling 480</td>
<td>Bilingualism</td>
<td>4</td>
</tr>
</tbody>
</table>
| Ling 482 | Pidgins and Creoles | 4  
  Or  
| Ling 410 | Selected Topics | 1-6 |

**Understanding Language in the Classroom Focus**
Intended for students interested in teaching, the TESL certificate or graduate work in education, including TESOL.

**Students planning on completing the TESL certificate concurrently with the BA or planning to take the MA TESOL program after the BA should work with an adviser to carefully plan their program.**

**Choose 16 credits from:**
- Ling 409: Community ESL Practicum 4
- Ling 416: Discourse Analysis 4
- Ling 439: Language Assessment 4
- Ling 470: Grammar for TESOL 4
- Ling 472: Teaching Pronunciation 4
- Ling 473: Computer Assisted Language Learning 4
- Ling 476: Corpus Linguistics in Language Teaching 4
- Ling 480: Bilingualism 4
- Ling 481: World Englishes 4  
  Or  
- Ling 410: Selected Topics 1-6
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 420</td>
<td>Historical and Comparative Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 482</td>
<td>Pidgins and Creoles</td>
<td>4</td>
</tr>
<tr>
<td>Ling 410</td>
<td>requires prior adviser approval</td>
<td></td>
</tr>
</tbody>
</table>

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. Upon completion the entire program must also be approved by the 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 12 credits of which must be taken in residence at PSU), to include the following:

**Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 390</td>
<td>Introduction to Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 392</td>
<td>Structure of the English Language</td>
<td>4</td>
</tr>
<tr>
<td>Ling 411</td>
<td>Syntax</td>
<td>4</td>
</tr>
<tr>
<td>Ling 490</td>
<td>History of the English Language</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Linguistics electives (upper-division level)</td>
<td>16</td>
</tr>
</tbody>
</table>

Subtotal: 28

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

### TEACHING OF ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL) M.A.

The M.A. 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 M.A. 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 M.A. 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Language Education/Applied Linguistics Theory Courses</td>
<td>20</td>
</tr>
<tr>
<td>2. Foundations in Language and Linguistic Theory Courses</td>
<td>16</td>
</tr>
<tr>
<td>3. Research Courses and Culminating Experience Credits</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total credits for MA TESOL degree**

48 credits

#### 1. Language Education/Applied Linguistics Theory Courses

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 538</td>
<td>Second Language Acquisition</td>
<td>4</td>
</tr>
<tr>
<td>Ling 571</td>
<td>Understanding the International Experience</td>
<td>4</td>
</tr>
<tr>
<td>Ling 577</td>
<td>TESOL Methods I</td>
<td>4</td>
</tr>
<tr>
<td>Ling 578</td>
<td>TESOL Methods II</td>
<td>4</td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 509</td>
<td>Community ESL Practicum</td>
<td>4</td>
</tr>
<tr>
<td>Ling 539</td>
<td>Language Assessment</td>
<td>4</td>
</tr>
<tr>
<td>Ling 570</td>
<td>Grammar for TESOL</td>
<td>4</td>
</tr>
<tr>
<td>Ling 572</td>
<td>Teaching Pronunciation</td>
<td>4</td>
</tr>
<tr>
<td>Ling 573</td>
<td>Computer Assisted Language Learning</td>
<td>4</td>
</tr>
<tr>
<td>Ling 575</td>
<td>Curriculum Design and Materials Development in TESOL</td>
<td>4</td>
</tr>
<tr>
<td>Ling 576</td>
<td>Corpus Linguistics in Language Teaching</td>
<td>4</td>
</tr>
</tbody>
</table>

2. **Foundations in Language and Linguistic Theory Courses**

Choose **4 credits from Linguistic Analysis**

**Linguistic Analysis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 514</td>
<td>Linguistic Pragmatics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 515</td>
<td>Linguistic Phonetics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 516</td>
<td>Discourse Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Ling 520</td>
<td>Historical and Comparative Linguistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose **4 credits from the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 511</td>
<td>Syntax</td>
<td>4</td>
</tr>
<tr>
<td>Ling 512</td>
<td>Phonology</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose **8 credits from Language and Society and/or Language and the Mind**

**Language and Society**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 532</td>
<td>Sociolinguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 580</td>
<td>Bilingualism</td>
<td>4</td>
</tr>
<tr>
<td>Ling 581</td>
<td>World Englishes</td>
<td>4</td>
</tr>
<tr>
<td>Ling 582</td>
<td>Pidgins and Creoles</td>
<td>4</td>
</tr>
</tbody>
</table>

**Language and Mind**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 533</td>
<td>Psycholinguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ling 537</td>
<td>First Language Acquisition</td>
<td>4</td>
</tr>
<tr>
<td>Ling 545</td>
<td>Linguistics and Cognitive Science</td>
<td>4</td>
</tr>
</tbody>
</table>

3. **Research Courses and Culminating Experience Credits**

**Research Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ling 559</td>
<td>Introduction to Graduate Study in Applied Linguistics</td>
<td>2</td>
</tr>
<tr>
<td>Ling 560</td>
<td>Research Design for Applied Linguistics</td>
<td>2</td>
</tr>
<tr>
<td>Ling 561</td>
<td>Research Methodology for Applied Linguistics</td>
<td>2</td>
</tr>
</tbody>
</table>

**Culminating Experience Options**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ling thesis/project/exams</td>
<td>6</td>
</tr>
</tbody>
</table>

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 505 (Reading and Conference), 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, or Research Design depending on course content, as determined by the instructor.

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 M.A. TESOL Program should write to the Department of Applied Linguistics or visit the department’s Web site www.pdx.edu/linguistics for additional information. Monthly information sessions are held for prospective students living in the Portland area. Contact the department for details.

**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. 218).

Intensive Program in English as a Second Language (ESL)-Ling 101-170, 453-456

The Intensive English Language Program (IELP) offers courses designed to develop students’ competence in listening, speaking, reading, and writing. The IELP is an intensive program offered throughout the regular academic year including the summer. There are three program options: (1) for students that desire academic preparation for undergraduate studies, (2) for students that desire academic preparation for graduate studies, and (3) for students who want to learn about American culture and improve their English communication skills. 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. The IELP courses are divided into the following categories:

Pre-Entry Program:
- Grammar/writing (8 credits)
- Reading (6 credits)
- Speaking/Listening (4 credits)
- American Culture and Academic Life (4 credits in academic year, 2 credits summer term)

Foundational Levels (1-3):
- Grammar/Writing (8 credits)
- Reading (4 credits)
- Speaking/Listening (4 credits)
- Skills Enhancement Course (2 credits)

Academic Preparation for Undergraduate Studies, Academic Preparation for Graduate Students (Level 4):
- Advanced English Grammar (4 credits)
- Guided Research Writing (4 credits)
- Academic Reading (4 credits)
- Understanding Academic Lectures (4 credits)
- Skills Enhancement Course (2 credits)

Academic Preparation for Undergraduate Studies (Level 5):
- Grammar and Editing for Academic Writing (4 credits)
- Independent Research Writing (4 credits)
- Advanced Academic Reading (4 credits)
- Discussion Skills (4 credits) OR Public Speaking (4 credits)
- Skills Enhancement Course (2 credits)

Academic Preparation for Graduate Students (Level 5):
- Research and Writing for Graduate Students (4 credits)
- Reading Strategies for Graduate Students (4 credits)
- Oral Communication for Graduate Students (4 credits)
- Language Proficiency Test Preparation (4 credits) OR Grammar and Editing for Academic Writing (4 credits)
- Skills Enhancement Course (2 credits)

Communication and Culture (Levels 4 and 5)

Students enroll in one of two sets of courses that alternate each term. Each set of courses includes the following:
- Multimedia Listening (4 credits)
- Writing for Specific Purposes (4 credits)
- Cultural Themes in Reading (4 credits)
- Oral Communication Fluency (4 credits)
- Skills Enhancement Course (2 credits)

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.

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.

Qualified students interested in English only study can participate in an Intensive English Language program offered in the Department of Applied Linguistics. For information and application materials, contact the IELP in the Department of Applied Linguistics.

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. 7) 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 222</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 223</td>
<td>General Chemistry III</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 228</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 229</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 331</td>
<td>Elements of Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 334</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 201</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Stat 243</td>
<td>Introduction to Probability and Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>Stat 244</td>
<td>Introduction to Probability and Statistics II</td>
<td>4</td>
</tr>
</tbody>
</table>

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

Biology Major Requirements

Lower Division Biology Core

Enrollment requires concurrent enrollment in CH 221 & CH 227 or prior completion of CH 221 & CH 227

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 251</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 252</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 253</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 334</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 336</td>
<td>Cell Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 341</td>
<td>Introduction to Genetics</td>
<td>4</td>
</tr>
</tbody>
</table>

Area B: Systems/Organisms

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 320</td>
<td>Introduction to Organismal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 330</td>
<td>Introduction to Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 380</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 386</td>
<td>Invertebrate Zoology</td>
<td>6</td>
</tr>
<tr>
<td>Bi 387</td>
<td>Vertebrate Zoology</td>
<td>6</td>
</tr>
</tbody>
</table>

Area C: Ecology/Evolution

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 357</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 358</td>
<td>Evolution</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 301</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 302</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 303</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 326</td>
<td>Comparative Vertebrate Embryology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 328</td>
<td>Comparative Vertebrate Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>Bi 337</td>
<td>Cell Biology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Bi 361</td>
<td>Introduction to Marine Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Bi 386</td>
<td>Invertebrate Zoology</td>
<td>6</td>
</tr>
<tr>
<td>Bi 387</td>
<td>Vertebrate Zoology</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 388</td>
<td>Microbiology Techniques</td>
<td>2</td>
</tr>
<tr>
<td>Bi 413</td>
<td>Herpetology</td>
<td>6</td>
</tr>
<tr>
<td>Bi 414</td>
<td>Ornithology</td>
<td>6</td>
</tr>
<tr>
<td>Bi 415</td>
<td>Mammalogy</td>
<td>6</td>
</tr>
<tr>
<td>Bi 416</td>
<td>Marine Mammals</td>
<td>6</td>
</tr>
<tr>
<td>Bi 431</td>
<td>Recombinant DNA Techniques Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Bi 432</td>
<td>Plant Diversity and Evolution</td>
<td>5</td>
</tr>
<tr>
<td>Bi 441</td>
<td>Plant Physiology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 450</td>
<td>Phylogenetic Biology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 455</td>
<td>Histology</td>
<td>6</td>
</tr>
<tr>
<td>Bi 471</td>
<td>Plant Ecology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 473</td>
<td>Field Sampling</td>
<td>4</td>
</tr>
<tr>
<td>Bi 476</td>
<td>Population Ecology</td>
<td>5</td>
</tr>
</tbody>
</table>

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 412-499 credit requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology (Anth)</td>
<td>Business (BA)</td>
<td></td>
</tr>
<tr>
<td>Chemistry (Ch)</td>
<td>Computer Science (CS)</td>
<td></td>
</tr>
<tr>
<td>Economics (Ec)</td>
<td>Environmental Science and Management (ESM)</td>
<td></td>
</tr>
<tr>
<td>Geography (Geog)</td>
<td>Geology (G)</td>
<td></td>
</tr>
<tr>
<td>Philosophy (Phl)</td>
<td>Physics (Ph)</td>
<td></td>
</tr>
<tr>
<td>Psychology (Psy)</td>
<td>Public Health Education (PHE)</td>
<td></td>
</tr>
<tr>
<td>Statistics (Stat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 251</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 252</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 253</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
</tbody>
</table>

Upper-division credits to include at least one course from each of the following three areas (12-15 credits)

<table>
<thead>
<tr>
<th>Area A: Cellular/Molecular</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bi 334</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Bi 336</td>
<td>Cell Biology</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Bi 341</td>
<td>Introduction to Genetics</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area B: Systems/Organisms</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bi 320</td>
<td>Introduction to Organismal Physiology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Bi 330</td>
<td>Introduction to Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Bi 380</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Bi 386</td>
<td>Vertebrate Zoology</td>
<td>6</td>
</tr>
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<td></td>
<td>Bi 387</td>
<td>Vertebrate Zoology</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area C: Ecology/Evolution</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bi 357</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Bi 358</td>
<td>Evolution</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 234</td>
<td>Elementary Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 235</td>
<td>Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Bi 341</td>
<td>Introduction to Genetics</td>
<td>4</td>
</tr>
<tr>
<td>Bi 357</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 358</td>
<td>Evolution</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper-division biology elective in botany or field oriented course</td>
<td>4</td>
</tr>
</tbody>
</table>

Physical science electives 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. 37), 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. 47). 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. 119) 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.
• Minor
• Postbaccalaureate Certificate

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. 7) 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BST 202</td>
<td>Introduction to Black Studies</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Lower Division Black Studies courses</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Upper-division electives in Black Studies</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Adviser approved non-Black Studies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upper-division electives</td>
<td>12</td>
</tr>
</tbody>
</table>

Elective Courses

(Adviser-approved credits in other disciplines. May also include upper-division Black Studies courses outside area of specialization)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fr 435</td>
<td>Francophone Literature of the 20th Century</td>
<td>4</td>
</tr>
<tr>
<td>Geog 363</td>
<td>Africa</td>
<td>4</td>
</tr>
<tr>
<td>Mus 374</td>
<td>World Music</td>
<td>4</td>
</tr>
<tr>
<td>Soc 337</td>
<td>Minorities</td>
<td>4</td>
</tr>
<tr>
<td>WS 330</td>
<td>Women of Color in the United States</td>
<td>4</td>
</tr>
<tr>
<td>Intl 471</td>
<td>Understanding the International Experience</td>
<td>4</td>
</tr>
<tr>
<td>Ling 471</td>
<td>Understanding the International Experience</td>
<td>4</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BST 203</td>
<td>Introduction to African American History</td>
<td>4</td>
</tr>
<tr>
<td>BST 204</td>
<td>Introduction to African American History</td>
<td>4</td>
</tr>
<tr>
<td>BST 206</td>
<td>Introduction to Caribbean Studies</td>
<td>4</td>
</tr>
<tr>
<td>BST 211A</td>
<td>Introduction to African Studies</td>
<td>4</td>
</tr>
<tr>
<td>BST 221</td>
<td>Introduction to African American Literature</td>
<td>4</td>
</tr>
</tbody>
</table>

Three courses chosen from (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BST 302</td>
<td>African American Experience in the 20th Century</td>
<td>4</td>
</tr>
<tr>
<td>BST 305</td>
<td>African History, Before 1800</td>
<td>4</td>
</tr>
<tr>
<td>BST 306</td>
<td>African History, 1800-Present</td>
<td>4</td>
</tr>
<tr>
<td>BST 362</td>
<td>African Prehistory</td>
<td>4</td>
</tr>
</tbody>
</table>
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  8
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. 7) 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 222</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 223</td>
<td>General Chemistry III</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 228</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 229</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 320</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Ch 321</td>
<td>Quantitative Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Ch 334</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 335</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 336</td>
<td>Organic Chemistry III</td>
<td>4</td>
</tr>
<tr>
<td>Ch 337</td>
<td>Organic Chemistry Laboratory I &amp; II</td>
<td>3</td>
</tr>
<tr>
<td>Ch 426</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Ch 427</td>
<td>Instrumental Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Ch 440</td>
<td>Physical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 441</td>
<td>Physical Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 426</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Ch 427</td>
<td>Instrumental Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Ch 440</td>
<td>Physical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 441</td>
<td>Physical Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 426</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Ch 427</td>
<td>Instrumental Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Ch 490</td>
<td>Biochemistry: Structure and Function</td>
<td>4</td>
</tr>
<tr>
<td>Ch 491</td>
<td>Biochemistry: Enzymology and Metabolism</td>
<td>4</td>
</tr>
<tr>
<td>Ch 492</td>
<td>Biochemistry: Nucleic Acids and Biological Information Flow</td>
<td>4</td>
</tr>
<tr>
<td>Ch 493</td>
<td>Biochemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Ch 494</td>
<td>Two approved 400-level science electives</td>
<td>6-8</td>
</tr>
<tr>
<td>Ch 495</td>
<td>Calculus through Math 253 or equivalent</td>
<td>12</td>
</tr>
<tr>
<td>Ch 496</td>
<td>One year of physics with calculus with laboratory</td>
<td>15</td>
</tr>
<tr>
<td>Bi 251</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 252</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 253</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
</tbody>
</table>

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 (e.g., General Chemistry Laboratory).

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 taken under the undifferentiated grading option (pass/no pass) are not acceptable toward fulfilling department minor requirements (except for Ch 227-Ch 229).

Subtotal: 37-42

CHEMISTRY SECONDARY EDUCATION PROGRAM

Adviser: G. Shusterman

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, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223 1
Ph 215 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223 1
Ph 216 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 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. 7) 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.

See University master’s degree requirements (p. 47). 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 German, Russian, or French 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.

Undergraduate programs

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. 7) 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 Mexican American/Chicano History I, 1492-1900 4
ChLa 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
Hst 325 Mexican American/Chicano History I, 1492-1900 4
Hst 326 Mexican American/Chicano History II, 1900-Present 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.A., 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. 7) 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm 200</td>
<td>Principles of Communication</td>
<td>4</td>
</tr>
<tr>
<td>Comm 311</td>
<td>Research Methods in Communication</td>
<td>4</td>
</tr>
<tr>
<td>Comm 316</td>
<td>Individual and Social Relationships in Communication</td>
<td>4</td>
</tr>
<tr>
<td>Comm 326</td>
<td>Communication, Society, and Culture</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Communication electives</td>
<td>44</td>
</tr>
<tr>
<td>Wr 222</td>
<td>Writing Research Papers</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>Wr 333</td>
<td>Advanced Composition</td>
<td>4</td>
</tr>
</tbody>
</table>

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 adviser for a complete list of courses that apply to the minor from offerings in Communication, English, and Theater Arts. A minimum of 20 adviser-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. Adviser-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 degrees of Master of Arts and Master of Science in Communication. Our faculty concentrate on research in the areas of health communication, mass media, political communication, 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. 37) 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. It is not required that the applicant have an undergraduate degree in communication; students with undergraduate backgrounds in 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 should check the Department Web site for specific application details, and applications should be received by February 1.

Applicants submit a letter of introduction, a statement of purpose as to why they want to pursue an advanced degree in communication, official transcripts, TOEFL (for international students), GRE scores, three letters of recommendation, writing samples, and application forms. Whenever possible the three letters of recommendation should come from individuals closely acquainted with the applicant’s academic career. For a list of requirements visit the Communication Department Web site, http://www.pdx.edu/communication/.

All students are admitted to the program on a conditional status. The conditional status will be removed when the graduate faculty determine that the student has made satisfactory progress in her or his academic program. Satisfactory progress is determined after students have completed at least 12 credits. Students will be required to earn a minimum grade point average of 3.0, and students who earn less than a B-minus in any class will have their progress reviewed by the graduate faculty. If the faculty agree that the student has made satisfactory progress the conditional status will be removed.

COMMUNICATION M.A./M.S.

All students must meet both University and Department requirements to successfully complete the program in communication. We offer a Master of Arts and a Master of Science degree. The M.A. requires foreign language proficiency, while the M.S. does not. All students must complete a total of 50 graduate credits, of which 42 are taken in coursework, plus an additional 8 credits toward the student’s thesis or project. Students entering the program 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:
Three core methods courses (listed below) are required of each student and include the following:
Comm 521 Quantitative Methods in Communication Research 4
Comm 531 Qualitative Methods in Communication Research 4
Comm 532 Critical Methods of Media Inquiry 4

Elective Area:
At least 5 courses 20

Students are encouraged to choose electives from within the Department, and courses taken outside the Department must be approved by student’s program adviser 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.

Thesis:
(8 credits) OR
Project:
At least 8 credits
Subtotal: 50

PROGRAM OPTIONS

All students complete one of the following with close supervision of their adviser. 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 adviser 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 8 thesis credits (Comm 503).

b. Project
Students who choose the Project Option work closely with their faculty advisors on planning a course of study grounded in relevant theories, concepts and practices. Students who chose this option must demonstrate appropriate research and methodological competency by successfully completing 3 exams as the culminating project. Students must complete at least 8 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

**Electives - Choose 28 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: 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. 47). 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

<table>
<thead>
<tr>
<th>Courses</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR 511</td>
<td>Research Methods in Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>CR 512</td>
<td>Perspectives in Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>CR 513</td>
<td>Philosophy of Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>CR 518</td>
<td>Psychology of Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>CR 515</td>
<td>Negotiation</td>
<td>4</td>
</tr>
<tr>
<td>CR 524</td>
<td>Advanced Mediation</td>
<td>4</td>
</tr>
<tr>
<td>CR 526</td>
<td>Intercultural Conflict Resolution</td>
<td>4</td>
</tr>
<tr>
<td>CR 522</td>
<td>Thesis and Project Prep Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

AREAS OF EMPHASIS

All graduate students are expected to develop a theoretical competency in at least two areas of emphasis. Areas of emphasis will be designed in consultation with the student’s program adviser. Areas of emphasis currently supported in this program include: mediation, democratic dialogue, violence prevention, restorative justice, peace education, nonviolent social change, international conflict resolution, intercultural conflict resolution, peace psychology, law-related conflict resolution, environmental conflict resolution, public policy conflict resolution, gender and peace, and dispute systems design and evaluation. Other areas of emphasis may be developed, according to particular student needs, in consultation with the program adviser.

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.

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 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.
Economics

241 Cramer Hall (CH)
503-725-3915
www.pdx.edu/econ

- B.A., B.S.
- Honors in Economics
- Minor in Economics
- Minor in International Economics
- Minor in Political Economy
- Secondary Education Program—Social Science
- M.S., M.A.
- M.S.T. and M.A.T. (General Social Science)
- Ph.D. in Systems Science-Economics
- Ph.D.—Participating department in Urban Studies Doctoral Program

The program in economics is designed to meet four major objectives: to provide a basic knowledge of economic analysis for the student intending to do undergraduate work in preparation for a professional career in business or government; to serve as the core of a liberal arts program for students planning to enter business or industry directly upon graduation; to provide courses preparing students for graduate work in economics; and to present courses that offer insight into the economic problems of the day.

Undergraduate programs

Economics majors take 48 credits in economics plus 12 credits in mathematics and statistics for a total of 60 credits. Economics offers a broad range of classes from economic history to mathematical economics. Majors are advised to contact the Undergraduate Director for the Department of Economics early on for assistance with planning an individualized program of study.

DEGREE MAPS AND LEARNING OUTCOMES

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

ADMISSION REQUIREMENTS

Admission to the department is based on general admission to the University.

Majors who are considering graduate school will need to tailor their undergraduate program for this purpose and should seek advice prior to the start of their junior year.

ECONOMICS B.A./B.S.

REQUIREMENTS

In addition to meeting the general University degree requirements, the major in economics must meet the following departmental requirements:

Economics courses
Ec 201 Principles of Microeconomics 4
Ec 202 Principles of Macroeconomics 4
Ec 311 Microeconomic Theory 4
Ec 312 Macroeconomic Theory 4

One of the following
Ec 456 American Economic History: the First Century 4
Ec 457 American Economic History: the 20th Century 4
Ec 460 History of Economic Thought 4
Ec 469 Introduction to Econometrics 4
300- or 400-level economics courses 28

Subtotal: 48

A minimum total of 28 credits of 300- and 400-level coursework, including Ec 456, Ec 457, Ec 460, and Ec 469 when not used to satisfy the 4-credit requirement immediately above. At least 16 of these credits must be in courses numbered 410 and above.

Other courses
Mth 251 Calculus I 0-4
Mth 252 Calculus II 4
Stat 243 Introduction to Probability and Statistics I 4
Stat 244 Introduction to Probability and Statistics II 4

Subtotal: 12

Subtotal: 60

Majors must take a minimum of 16 credits of coursework in residence from this department and must maintain at least a 2.00 grade point average in work completed in this department.

All courses used to satisfy the departmental major requirements, whether taken in the department or elsewhere, must be taken for a letter grade and must be graded C- or above. Ec 403 Honors Thesis cannot be used to satisfy the requirements for the major in economics.

ECONOMICS HONORS PROGRAM

The Honors Program allows outstanding majors in the Department of Economics to conduct research with a faculty member and to receive recognition for their exceptional performance. Honors students participate in
faculty research projects or pursue an independent honors thesis under faculty guidance.

To earn an Honors degree, interested students should apply to the Undergraduate Director after they have completed Ec 201, Ec 202, Ec 311, and Ec 312. It is recommended that students either complete Mth 251, Stat 243, Stat 244 and one of the following: Ec 456, Ec 457, Ec 460, Ec 469 OR that they enroll concurrently in these courses while working on the Honors program. Students admitted to the Honors Program complete the following requirements:

- 8 credits of Ec 403 which cannot be used to satisfy the requirements for the BA/BS in economics.
- Students typically take 2 credit hours per term of Ec 403 Honors Thesis during the first two terms of their honors studies and 4 credit hours of Ec 403 Honors Thesis during the third term of their honors studies.
- A written thesis is required to be completed during the third term of enrollment in Ec 403.
- Honors students present their theses as the final requirement for department honors.

Applicants are required to have earned a minimum GPA of 3.50 in economics courses. Applicants to the Honors Program should submit to the Undergraduate Director their transcript, an honors thesis proposal and a letter of support from an economics faculty member who has agreed to serve as the applicant’s adviser.

ECONOMICS MINOR

REQUIREMENTS

To earn a minor in economics, a student must complete 28 credits (12 credits of which must be taken in residence at PSU), to include the following:

Courses
Ec 201 Principles of Microeconomics 4
Ec 202 Principles of Macroeconomics 4
Upper-division economics electives 20

Upper-division electives: No more than 8 credits of Ec 410 will be accepted for this minor. No omnibus courses other than 399 and 410 will be accepted

Courses must be taken for a letter grade and must be graded C- or above.
Subtotal: 28

INTERNATIONAL ECONOMICS MINOR

REQUIREMENTS

To earn a minor in international economics, a student must complete 28 credits (12 credits of which must be taken in residence at PSU), to include the following:

Courses (16 credits)
Ec 201 Principles of Microeconomics 4
Ec 202 Principles of Macroeconomics 4
Ec 340 International Economics 4
Ec 350 Economics of Developing Countries 4

Upper-division economics electives chosen from: (12 credits)
Ec 440 International Trade Theory and Policy 4
Ec 441 International Monetary Theory and Policy 4
Ec 442 The Multinational Enterprise in the World Economy 4
Ec 445 Comparative Economic Systems 4
Ec 447 Economics of Transition 4
Ec 448 East Asian Economic Development 4
Ec 450 Economics of Development 4

Courses must be taken for a letter grade and must be graded C- or above.
Subtotal: 28

POLITICAL ECONOMY MINOR

REQUIREMENTS

To earn a minor in political economy, a student must complete 28 credits (12 credits of which must be taken in residence at PSU), to include the following:

Courses
Ec 201 Principles of Microeconomics 4
Ec 202 Principles of Macroeconomics 4
Ec 460 History of Economic Thought 4

Economics electives chosen from: (16 credits)
Ec 338 The Political Economy of Latin American Development 4
Ec 339 Political Economy of Japanese Development 4
Ec 345 Marxist Political Economy 4
Ec 348 The Globalization Debate: Concept, History, and Theory 4
Ec 417 Women in the Economy 4
Ec 445 Comparative Economic Systems 4
Ec 446 Institutional Economics 4
Ec 447 Economics of Transition 4
Ec 450 Economics of Development 4
Ec 451 Microenterprises in Developing Areas 4

Courses must be taken for a letter grade and must be graded C- or above.
Subtotal: 28
Graduate programs

The Department of Economics offers graduate work leading to the Master of Science and Master of Arts degrees.

ADMISSION REQUIREMENTS

Master of Science or Master of Arts

Admission to the Master’s program in the Department of Economics requires, in addition to the University admissions requirements:

1. GPA Requirements: Admission to the Economics program is highly competitive and requires a minimum of a 3.00 GPA in overall undergraduate coursework.

2. Coursework: Undergraduate courses in Intermediate Microeconomics, Intermediate Macroeconomics, Statistics, Econometrics and Multivariate Calculus, as well as Linear Algebra, are required for admission.

3. Testing: Minimum GRE scores of 300 (quantitative and verbal combined; 1100 by the old GRE scale). Request that Educational Testing Services (ETS) send a copy of your scores to 4610 (Department of Economics at PSU). The GMAT with a score of 520 or higher may be considered in lieu of the GRE. The TOEFL is required for University admission for international students, unless they have a degree from a university in Australia, English-speaking Canada, Great Britain, Ireland, New Zealand or the U.S. See University minimum TOEFL requirements at http://www.pdx.edu/admissions/english-language-proficiency-requirements-graduate.

4. Recommendations: Three (3) letters of recommendation, at least two of which should be from Economics professors, should be sent either by mail to: Department of Economics, PSU, P.O. Box 751, Portland, OR 97207-0751 or by email to Graduate Program Coordinator, Department of Economics at econ@pdx.edu.

5. Statement of Purpose: Approximately 500-word essay on goals and aspirations for entering and completing the graduate program.

6. Application/Transcripts: Official transcripts from any other institutions (other than PSU) you may have attended. You will need an official transcript sent to the PSU Admissions Office for University admission AND an official transcript sent to the Department of Economics, PSU, P.O. Box 751, Portland, OR 97207-0751.

ECONOMICS M.S./M.A.

The Master of Arts has the same requirements as a Master of Science, but Master of Arts has an additional requirement of a foreign language. Students must complete a nine-course core requirement (36 credits), with 52 credits in total. Credit requirements beyond the core courses may be satisfied entirely with economics elective courses or partially with a maximum of 8 credits of economics research. Students have two options for completing the economics electives and/or research requirement:

1. select 16 credits of economics electives.

2. select 8 (maximum 12) credits of economics elective courses and 8 (minimum 4) credits of research to be completed in any combination of Ec 501, Ec 596 and Ec 597.

Economics elective courses may be substituted by graduate courses from other departments with prior Department of Economics approval.

REQUIREMENTS

Core economics courses (36 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ec 560</td>
<td>History of Economic Thought</td>
<td>4</td>
</tr>
<tr>
<td>Ec 570</td>
<td>Econometrics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 571</td>
<td>Advanced Econometrics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 575</td>
<td>Applied Advanced Econometrics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 580</td>
<td>Mathematical Economics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 581</td>
<td>Advanced Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 584</td>
<td>Applications of Advanced Microeconomic Theory</td>
<td>4</td>
</tr>
<tr>
<td>Ec 590</td>
<td>Advanced Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 592</td>
<td>Applications of Advanced Macroeconomic Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

Economics electives and/or Economics Research (16 credits)

Option I: Economics Electives (16)

Option II: Economic Electives (8-12) and Economics Research (4-8)

Subtotal: 52

Students with questions concerning transferred credits should contact the Graduate adviser.

English

405 Neuberger Hall (NH)
503-725-3521
www.english.pdx.edu/

- B.A.—English
- B.A., B.S.—General Studies: Arts and Letters
- Minor in English
- Minor in Film Studies
- Minor in Writing
- M.A. in English
• M.A./M.S. in Writing
• M.F.A in Creative Writing

Undergraduate programs

The study of English has long been considered one of the best ways to obtain a liberal education. Courses are designed to develop students’ critical capabilities, to deepen their understanding of diverse cultural issues, and to improve their abilities to analyze and produce complex texts. The department prepares its majors for careers in writing and teaching, as well as for a variety of professions in which high levels of literacy and critical thought are required.

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. 7) 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 201</td>
<td>Introduction to Shakespeare</td>
<td>4</td>
</tr>
<tr>
<td>Eng 204</td>
<td>Survey of English Literature</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper-division courses

Theory (Group A)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 300</td>
<td>Introduction to the English Major</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective in criticism and practice (4 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 491</td>
<td>History of Literary Criticism and Theory I</td>
<td>4</td>
</tr>
<tr>
<td>Eng 492</td>
<td>History of Literary Criticism and Theory II</td>
<td>4</td>
</tr>
<tr>
<td>Eng 493</td>
<td>Advanced Topics in Feminist Literary Theory</td>
<td>4</td>
</tr>
<tr>
<td>Eng 494</td>
<td>Topics in Critical Theory and Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

Literatures of Ethnicity, Gender, Class, and Culture (Group B)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 305</td>
<td>Topics in Film</td>
<td>3 - 4</td>
</tr>
<tr>
<td>Eng 309</td>
<td>American Indian Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 330</td>
<td>Jewish and Israeli Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 351</td>
<td>African American Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 352</td>
<td>African American Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 353</td>
<td>African American Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 367</td>
<td>American Literature and Culture</td>
<td>4</td>
</tr>
<tr>
<td>Eng 372</td>
<td>Topics in Literature, Gender, and Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>Eng 373</td>
<td>Topics in Literature, Race, and Ethnicity</td>
<td>4</td>
</tr>
<tr>
<td>Eng 387</td>
<td>Women’s Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 420</td>
<td>Caribbean Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 421</td>
<td>African Fiction</td>
<td>4</td>
</tr>
<tr>
<td>Eng 422</td>
<td>African Fiction</td>
<td>4</td>
</tr>
<tr>
<td>Eng 441</td>
<td>Advanced Topics in Renaissance Culture</td>
<td>4</td>
</tr>
<tr>
<td>Eng 443</td>
<td>British Women Writers</td>
<td>4</td>
</tr>
<tr>
<td>Eng 444</td>
<td>British Women Writers</td>
<td>4</td>
</tr>
<tr>
<td>Eng 445</td>
<td>American Women Writers: 19th Century</td>
<td>4</td>
</tr>
<tr>
<td>Eng 446</td>
<td>American Women Writers: 20th Century</td>
<td>4</td>
</tr>
<tr>
<td>Eng 467</td>
<td>Advanced Topics: American Literature and Culture</td>
<td>4</td>
</tr>
<tr>
<td>Eng 469</td>
<td>Advanced Topics in Asian-American Literature and Culture</td>
<td>4</td>
</tr>
</tbody>
</table>
## 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 301</td>
<td>Topics: Shakespeare</td>
<td>4</td>
</tr>
<tr>
<td>Eng 311</td>
<td>Tragedy</td>
<td>4</td>
</tr>
<tr>
<td>Eng 312</td>
<td>Comedy and Satire</td>
<td>4</td>
</tr>
<tr>
<td>Eng 314</td>
<td>The Epic</td>
<td>4</td>
</tr>
<tr>
<td>Eng 320</td>
<td>The English Novel</td>
<td>4</td>
</tr>
<tr>
<td>Eng 340</td>
<td>Medieval Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 341</td>
<td>Renaissance Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 342</td>
<td>Restoration and Eighteenth Century Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 343</td>
<td>Romanticism</td>
<td>4</td>
</tr>
<tr>
<td>Eng 360</td>
<td>American Literature to 1865</td>
<td>4</td>
</tr>
<tr>
<td>Eng 411</td>
<td>English Drama</td>
<td>4</td>
</tr>
<tr>
<td>Eng 426</td>
<td>Advanced Topics in Medieval Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 430</td>
<td>Sixteenth Century Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 440</td>
<td>Advanced Topics in Seventeenth Century Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 441</td>
<td>Advanced Topics in Renaissance Culture</td>
<td>4</td>
</tr>
<tr>
<td>Eng 450</td>
<td>Advanced Topics in Eighteenth Century Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 458</td>
<td>Advanced Topics in Romanticism</td>
<td>4</td>
</tr>
<tr>
<td>Eng 460</td>
<td>Advanced Topics in American Literature to 1800</td>
<td>4</td>
</tr>
</tbody>
</table>

### Other Group C courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 313</td>
<td>The American Short Story</td>
<td>4</td>
</tr>
<tr>
<td>Eng 321</td>
<td>English Novel</td>
<td>4</td>
</tr>
<tr>
<td>Eng 344</td>
<td>Victorian Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 345</td>
<td>Modern British Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 351</td>
<td>African American Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 352</td>
<td>African American Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 353</td>
<td>African American Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 363</td>
<td>American Literature 1865-1965</td>
<td>4</td>
</tr>
<tr>
<td>Eng 364</td>
<td>American Fiction I</td>
<td>4</td>
</tr>
<tr>
<td>Eng 365</td>
<td>American Fiction II</td>
<td>4</td>
</tr>
<tr>
<td>Eng 366</td>
<td>American Fiction</td>
<td>4</td>
</tr>
<tr>
<td>Eng 367</td>
<td>American Literature and Culture</td>
<td>4</td>
</tr>
<tr>
<td>Eng 384</td>
<td>Contemporary Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 385</td>
<td>Contemporary Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 412</td>
<td>English Drama</td>
<td>4</td>
</tr>
<tr>
<td>Eng 461</td>
<td>Topics: American Literature to 1900</td>
<td>4</td>
</tr>
<tr>
<td>Eng 464</td>
<td>American Literature: 20th Century</td>
<td>4</td>
</tr>
<tr>
<td>Eng 467</td>
<td>Advanced Topics: American Literature and Culture</td>
<td>4</td>
</tr>
<tr>
<td>Eng 475</td>
<td>Advanced Topics in Victorian Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 477</td>
<td>American Poetry</td>
<td>4</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 331</td>
<td>Introduction to Rhetoric and Composition Studies</td>
<td>4</td>
</tr>
<tr>
<td>Eng 413</td>
<td>Teaching and Tutoring Writing</td>
<td>4</td>
</tr>
<tr>
<td>Eng 414</td>
<td>Contemporary Composition Theories</td>
<td>4</td>
</tr>
<tr>
<td>Eng 415</td>
<td>Research Methods in Rhetoric and Composition</td>
<td>4</td>
</tr>
<tr>
<td>Eng 416</td>
<td>History of Rhetoric</td>
<td>4</td>
</tr>
<tr>
<td>Eng 425</td>
<td>Practical Grammar</td>
<td>4</td>
</tr>
<tr>
<td>Eng 490</td>
<td>Advanced Topics in Rhetoric and Composition Studies</td>
<td>4</td>
</tr>
<tr>
<td>Ling 390</td>
<td>Introduction to Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Wr 300</td>
<td>Topics in Composition</td>
<td>4</td>
</tr>
<tr>
<td>Wr 312</td>
<td>Intermediate Fiction Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 313</td>
<td>Intermediate Poetry Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 323</td>
<td>Writing as Critical Inquiry</td>
<td>4</td>
</tr>
<tr>
<td>Wr 324</td>
<td>Advanced Writing About Literature</td>
<td>4</td>
</tr>
<tr>
<td>Wr 327</td>
<td>Technical Report Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 328</td>
<td>News Editing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 330</td>
<td>Desktop Publishing I</td>
<td>4</td>
</tr>
<tr>
<td>Wr 333</td>
<td>Advanced Composition</td>
<td>4</td>
</tr>
<tr>
<td>Wr 394</td>
<td>Writing Careers for English Majors</td>
<td>4</td>
</tr>
<tr>
<td>Wr 400</td>
<td>Advanced Topics in Composition</td>
<td>4</td>
</tr>
<tr>
<td>Wr 412</td>
<td>Advanced Fiction Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 413</td>
<td>Advanced Poetry Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 416</td>
<td>Screenwriting</td>
<td>4</td>
</tr>
<tr>
<td>Wr 420</td>
<td>Writing: Process and Response</td>
<td>4</td>
</tr>
<tr>
<td>Wr 425</td>
<td>Advanced Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 426</td>
<td>Document Design</td>
<td>4</td>
</tr>
<tr>
<td>Wr 427</td>
<td>Technical Editing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 428</td>
<td>Advanced News Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 429</td>
<td>Writing Computer Documentation</td>
<td>4</td>
</tr>
<tr>
<td>Wr 430</td>
<td>Desktop Publishing II</td>
<td>4</td>
</tr>
<tr>
<td>Wr 456</td>
<td>Forms of Nonfiction</td>
<td>4</td>
</tr>
<tr>
<td>Wr 457</td>
<td>Personal Essay Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 458</td>
<td>Magazine Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 459</td>
<td>Memoir Writing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 460</td>
<td>Introduction to Book Publishing</td>
<td>4</td>
</tr>
<tr>
<td>Wr 461</td>
<td>Book Editing</td>
<td>4</td>
</tr>
</tbody>
</table>
Wr 462  Book Design and Production  4
Wr 463  Book Marketing and Promotion  4
Wr 464  Bookselling  4
Wr 470  Intellectual Property and Copyright
       appropriate adviser-approved, upper-division course

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  3 - 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

- 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.

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:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 304</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

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. 119) 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 English.pdx.edu/Eng_Admissions.php:
  - 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. 47). 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:

I. The three-area, non-thesis option, emphasizing general coverage of literary material.

II. 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. Students engage in close readings and critiques of their work, and in seminars in which the focus may be a formal element, regional tradition, historical period, the works of a seminal writer or two, or a literary movement. The degree requirements are integrated with the M.A. in English curriculum so that students work with accomplished faculty in literature, critical theory, and rhetoric and composition. The degree emphasizes faculty mentorship throughout each student’s coursework and thesis completion. Consistent with PSU’s mandate to serve our city’s cultural and professional needs, engagement in Portland’s vibrant local community of writers is central to our students’ movement from academic to creative careers.

M.F.A. students work in a selected genre: fiction, nonfiction or poetry. Prospective students must apply specifically to the genre in which they wish to work. Core workshops are taken in the student’s primary genre, but writing electives may allow students to explore other genres. Students of fiction and nonfiction may work in long or short form and the thesis may be a collection of short pieces or a full-length work. Many students come to the Creative Writing program with a background in English literature, writing or journalism, but this is not required. The program can be completed in two years of full-time coursework; however, many students take additional courses or attend part-time, and they have a maximum of four years to complete the degree.

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.
- 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.

-In poetry: 12- 15 pages
Writing Samples can be comprised of one or multiple bodies of work equal to the page requirements listed above. 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wr 521</td>
<td>MFA Core Workshop in Fiction</td>
<td>4</td>
</tr>
<tr>
<td>Wr 522</td>
<td>MFA Core Workshop in Poetry</td>
<td>4</td>
</tr>
<tr>
<td>Wr 523</td>
<td>MFA Core Workshop in Nonfiction</td>
<td>4</td>
</tr>
<tr>
<td>Wr 503</td>
<td>Thesis</td>
<td>8</td>
</tr>
<tr>
<td>Or</td>
<td>Wr Seminars</td>
<td>8</td>
</tr>
<tr>
<td>Electives in Literature</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Writing electives</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Subtotal: 48

Wr 521, Wr 522, Wr 523: (4 classes, repeat minimum of 4 times)

Wr Seminars: (2 classes)

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)

Thesis: (8 credit hours to be arranged)

M.F.A. students will complete 48 credit hours of coursework, with 40 credits in writing and 8 credits in English literature. 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 and 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
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 4
Wr 560 Introduction to Book Publishing 4

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).

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.
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 oral exam committee, a topic will be assigned by the student's adviser for a final paper of approximately ten pages to be delivered within 10 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 and Production 4
- Wr 563 Book Marketing and Promotion 4
- Wr 564 Bookselling 4
- Wr 570 Intellectual Property and Copyright 4

Subtotal: 48

**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 Studies
- Minor in Sustainability
- Certificate in Hydrology
- M.S., M.E.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. 7) 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 52 credits of environmental science core courses and must meet department requirements for foundation courses (49-50 credits), and supporting elective courses (connected learning electives) in science, social science, and humanities (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.

<table>
<thead>
<tr>
<th>Departmental Orientation</th>
<th>ESM 150 Orientation to Environmental Sciences and Management</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Courses</td>
<td>Bi 251 Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Bi 252 Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Bi 253 Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Ch 221 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Ch 222 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Ch 227 General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Ch 228 General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Ec 201 Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Ec 332 Economics of Environmental Issues</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>G 201 Geology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>G 204 Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>G 202 Geology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>G 205 Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Ph 201 General Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Ph 214 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Ph 211 General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Ph 214 Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Geog 210 Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Mth 251 Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td></td>
<td>Mth 252 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Stat 243</td>
<td>Introduction to Probability and Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>Stat 244</td>
<td>Introduction to Probability and Statistics II</td>
<td>4</td>
</tr>
<tr>
<td>Stat 243</td>
<td>Or Introduction to Probability and Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>ESM 340</td>
<td>Research Methods in Environmental Science</td>
<td>4</td>
</tr>
</tbody>
</table>

**Subtotal: 49-50**

### Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESM 220</td>
<td>Introduction to Environmental Systems</td>
<td>4</td>
</tr>
<tr>
<td>ESM 221</td>
<td>Applied Environmental Studies: Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>ESM 222</td>
<td>Applied Environmental Studies: Policy Consideration</td>
<td>4</td>
</tr>
<tr>
<td>ESM 320</td>
<td>Analysis of Environmental Systems I</td>
<td>4</td>
</tr>
<tr>
<td>ESM 321</td>
<td>Analysis of Environmental Systems II</td>
<td>4</td>
</tr>
<tr>
<td>ESM 323</td>
<td>Environmental Systems Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>ESM 324</td>
<td>Environmental Systems Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>ESM 322</td>
<td>Environmental Risk Assessment</td>
<td>4</td>
</tr>
<tr>
<td>ESM 325</td>
<td>Environmental Risk Assessment Lab</td>
<td>2</td>
</tr>
<tr>
<td>ESM 335</td>
<td>Introduction to Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td>ESM 407</td>
<td>Environmental Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ESM 410-499</td>
<td>Advanced Environmental Topics</td>
<td>16</td>
</tr>
</tbody>
</table>

**Subtotal: 52**

ESM 404 can be substituted for 4 credits of the ESM 410-499 requirement.

### Connected learning electives

Students must complete 16 credits of supporting courses selected from an approved list of courses available on the department Web site www.pdx.edu/esml. These courses are intended to broaden the student’s background and include courses from allied sciences (e.g., biology, geology and geography), courses that focus on the development of skills and techniques (e.g., GIS and remote sensing) useful in environmental science, and courses that address the interactions of humans and the natural environment (e.g., economics, English, history, philosophy, political science, sociology, and urban studies and planning). In selecting these courses, students are strongly encouraged to broaden their studies beyond science by including courses from the social sciences and humanities.

**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).

A summary of the requirements are listed below:

- 1 credit departmental orientation
- 29-31 credits in natural sciences in the subjects of ecology, chemistry, environmental systems, and physical geography
- 24 credits in social sciences and humanities in the subjects of resource management, economics, environmental policy and regulations, and others
- 21 credits from a list of “skills” that includes quantitative analysis, visualization of spatial data, field methods, and others
- 16 credits in an identified topical area. Choices include environmental systems, urban issues, resource management, nature/society interactions, or environmental education

There is a minimum of 90 credits required for this major.

### Departmental Orientation

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESM 150</td>
<td>Orientation to Environmental Sciences and Management</td>
<td>1</td>
</tr>
</tbody>
</table>

**Subtotal: 1**

### Core Courses

#### Natural Sciences Core Courses

#### Biology (8)

8 credits in one of the following sequences:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 252</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 253</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
</tbody>
</table>

Or
Sci 341 Biology Concepts and Applications I 4
Sci 342 Biology Concepts and Applications II 4

Chemistry (8)
(two quarters or one semester)
ESM 230 Fundamentals of Environmental Chemistry I 4
ESM 231 Fundamentals of Environmental Chemistry II 4

Environment Science (8)
ESM 220 Introduction to Environmental Systems 4
ESM 221 Applied Environmental Studies: Problem Solving 4

Physical Geography (4)
Geog 210 Physical Geography 4

Senior Seminar
ESM 407 Environmental Seminar 1

Subtotal: 29-31

Social Sciences and Humanities Core Courses

Human Geography/Management (8)
Geog 230 Environment and Society: Global Perspectives 4
Geog 345 Resource Management 4

Environmental Economics (4)
Ec 332 Economics of Environmental Issues 4

or equivalent

Environmental Policy/Regulations (8)
ESM 222 Applied Environmental Studies: Policy Consideration 4
ESM 335 Introduction to Environmental Management 4

4 credits from the following list of courses:
ESM 330 Environmental and Ecological Literacy 4
PS 319 Politics of the Environment 4
Phil 310 Environmental Ethics 4
Hst 339 The Environment and History 4
Geog 347 Environmental Issues and Action 4

Subtotal: 24

Skills

Students must take a total of 21 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
Geog 496 Visualization of Spatial Data 4
Geog 497 Spatial Quantitative Analysis 4
ESM 340 Research Methods in Environmental Science 4

Visualizing Spatial Data (8)
Geog 380 Maps and Geographic Information 4
Geog 488 Geographic Information Systems I: Introduction 4

Field Methods (4)
4 credits from this list:
Bi 473 Field Sampling 4
Geog 420 Field Methods in Physical Geography 4
ESM 342 Field Methods 2
ESM 404 Cooperative Ed/Internship 0-12
Geog 489 Building a GIS Database with GPS 4
Geog 425 Field Methods in Human Geography 4

Communications (4)
4 credits from this list:
Wr 327 Technical Report Writing 4
Geog 481 Satellite Image Processing 4
Geog 485 Map Design and Production 4
Geog 495 Maps, Models, and GIS 4

Subtotal: 21

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.

Any course taken to meet the core content requirement cannot be used to meet the topical area requirement.

Subtotal: 16

Total Credit Hours: 89-91

ENVIRONMENTAL STUDIES MINOR

REQUIREMENTS

To obtain a minor in environmental studies, a student must complete at least 28 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESM 222</td>
<td>Applied Environmental Studies: Policy Consideration</td>
<td>4</td>
</tr>
<tr>
<td>ESM 320</td>
<td>Analysis of Environmental Systems I</td>
<td>4</td>
</tr>
<tr>
<td>ESM 321</td>
<td>Analysis of Environmental Systems II</td>
<td>4</td>
</tr>
<tr>
<td>ESM 322</td>
<td>Environmental Risk Assessment</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper-division policy management courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upper-division environmental sciences courses</td>
<td>8</td>
</tr>
</tbody>
</table>

Subtotal: 28

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 29 credits (at least 15 of which must be taken in residence at PSU), to including the following:

Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnSt 224</td>
<td>Applied Environmental Studies: Policy Consideration</td>
<td>4</td>
</tr>
<tr>
<td>ESM 222</td>
<td>Environmental Sustainability</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper-division credits to include at least a total of four courses from the following three categories</td>
<td>15-16</td>
</tr>
</tbody>
</table>

Students must choose at least one course from each category.

Economics/Business

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ec 332</td>
<td>Economics of Environmental Issues</td>
<td>4</td>
</tr>
<tr>
<td>Ec 444</td>
<td>Economics of Green Power</td>
<td>4</td>
</tr>
<tr>
<td>Ec 433</td>
<td>Advanced Natural Resource Economics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 434</td>
<td>Business Environmental Management Economics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 443</td>
<td>Global Environmental Economics</td>
<td>4</td>
</tr>
<tr>
<td>USP 490</td>
<td>Green Economics and Sustainable Development</td>
<td>3</td>
</tr>
<tr>
<td>Ec 430</td>
<td>Resource and Environmental Economics</td>
<td>4</td>
</tr>
</tbody>
</table>

Social Issues

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch 367</td>
<td>Fundamentals of Environmental Design</td>
<td>4</td>
</tr>
<tr>
<td>Geog 345</td>
<td>Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>Geog 346</td>
<td>World Population and Food Supply</td>
<td>4</td>
</tr>
<tr>
<td>Geog 347</td>
<td>Environmental Issues and Action</td>
<td>4</td>
</tr>
<tr>
<td>Geog 442</td>
<td>Sustainable Cities</td>
<td>4</td>
</tr>
<tr>
<td>Geog 465</td>
<td>Tuscany: Sustainability in City and Country</td>
<td>4</td>
</tr>
<tr>
<td>Hst 339</td>
<td>The Environment and History</td>
<td>4</td>
</tr>
<tr>
<td>Phil 310</td>
<td>Environmental Ethics</td>
<td>4</td>
</tr>
<tr>
<td>PS 319</td>
<td>Politics of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>Sci 321</td>
<td>Energy and Society</td>
<td>4</td>
</tr>
<tr>
<td>Sci 322</td>
<td>Energy and Society II</td>
<td>4</td>
</tr>
<tr>
<td>Soc 341</td>
<td>Population Trends and Policy</td>
<td>4</td>
</tr>
<tr>
<td>Soc 465</td>
<td>Environmental Sociology</td>
<td>4</td>
</tr>
<tr>
<td>USP 313</td>
<td>Urban Environmental Issues</td>
<td>4</td>
</tr>
<tr>
<td>USP 325</td>
<td>Community and the Built</td>
<td>4</td>
</tr>
</tbody>
</table>
Environment
USP 419 Population and Society 4

Environmental Systems
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 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:
UnSt 421 Capstone 6
(A list of acceptable capstone courses will be prepared for each year).
Subtotal: 29-30

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 and (MS) and the Masters of Environmental Management (MEM) degrees. The Department also participates in the Earth, Environment, & Society Ph.D. degree (p. 160) 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 and Master of Environmental Management
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.

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. or M.E.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. Students must complete at least 45 graduate credits.

**M.S. REQUIREMENTS**

The M.S. program of study consists of the following minimum credit requirements:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core courses (one from each core area and selected from program list)</td>
<td>16</td>
</tr>
<tr>
<td>ESM 507 Seminar</td>
<td>1-6</td>
</tr>
<tr>
<td>Quantitative analysis (selected from program list)</td>
<td>4</td>
</tr>
<tr>
<td>Area of concentration</td>
<td>12</td>
</tr>
<tr>
<td>Elective and supporting courses</td>
<td>4</td>
</tr>
<tr>
<td>Thesis/project</td>
<td>6</td>
</tr>
</tbody>
</table>

ESM 507: three terms
Subtotal: 45

**M.E.M. REQUIREMENTS**

The M.E.M. program of study consists of the following minimum credit requirements:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core courses (one from each core area and selected from program list and ESM 551)</td>
<td>16</td>
</tr>
<tr>
<td>ESM 507 Seminar</td>
<td>1-6</td>
</tr>
<tr>
<td>Quantitative analysis (selected from program list)</td>
<td>4</td>
</tr>
<tr>
<td>Area of concentration</td>
<td>12</td>
</tr>
<tr>
<td>Elective and supporting courses</td>
<td>4</td>
</tr>
<tr>
<td>Thesis/project</td>
<td>6</td>
</tr>
</tbody>
</table>

ESM 507: three terms
Subtotal: 45

**CORE COURSES**

Core courses are required in physical environmental processes, ecological processes and environmental management for all master’s students. M.E.M. students must also complete a core course in project management. 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.

**Geography**

424 Cramer Hall
725-3916
www.pdx.edu/geography

- B.A., B.S.
- Minor
- Minor in GIS
- Secondary Education Program-Social Science
- M.A., M.S.
- Graduate Certificate in GIS
- M.A.T. and M.S.T. (General Social Science)
- Ph.D.—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. 7) 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

<table>
<thead>
<tr>
<th>Physical Geography: (12 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geog 210: Physical Geography</td>
</tr>
<tr>
<td>Geog 310: Climate and Water Resources</td>
</tr>
<tr>
<td>Geog 311: Climatology</td>
</tr>
<tr>
<td>Geog 312: Climate Variability</td>
</tr>
<tr>
<td>Geog 313: Biogeography</td>
</tr>
<tr>
<td>Geog 314: Severe Weather</td>
</tr>
<tr>
<td>Geog 320: Geomorphic Processes</td>
</tr>
<tr>
<td>Geog 322: Alpine Environments</td>
</tr>
<tr>
<td>Geog 333: Weather</td>
</tr>
<tr>
<td>Geog 340: Global Water Issues and</td>
</tr>
<tr>
<td>Sustainability</td>
</tr>
<tr>
<td>Geog 407: Seminar in Physical Geography</td>
</tr>
<tr>
<td>Geog 413: Biogeography of Pacific</td>
</tr>
<tr>
<td>Northwest</td>
</tr>
<tr>
<td>Geog 414: Hydrology</td>
</tr>
<tr>
<td>Geog 415: Soils and Land Use</td>
</tr>
<tr>
<td>Geog 418: Landscape Ecology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Human Geography: (12 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geog 230: Environment and Society: Global</td>
</tr>
<tr>
<td>Perspectives</td>
</tr>
<tr>
<td>Geog 240: Geography of Wine</td>
</tr>
<tr>
<td>Geog 331: Geography of Globalization</td>
</tr>
<tr>
<td>Geog 332: Urban Geography</td>
</tr>
<tr>
<td>Geog 345: Resource Management</td>
</tr>
<tr>
<td>Geog 346: World Population and Food</td>
</tr>
<tr>
<td>Supply</td>
</tr>
<tr>
<td>Geog 347: Environmental Issues and Action</td>
</tr>
<tr>
<td>Geog 348: Cultural and Political Ecology</td>
</tr>
<tr>
<td>Geog 349: Mountain Geography</td>
</tr>
<tr>
<td>Geog 407: Seminar in Human Geography</td>
</tr>
<tr>
<td>Geog 430: Cultural Geography</td>
</tr>
<tr>
<td>Geog 432: Urban Landscapes</td>
</tr>
<tr>
<td>Geog 442: Sustainable Cities</td>
</tr>
<tr>
<td>Geog 445: Resource Management Topics</td>
</tr>
<tr>
<td>Geog 446: Water Resource Management</td>
</tr>
<tr>
<td>Geog 447: Urban Streams</td>
</tr>
<tr>
<td>Geog 448: The Urban Forest</td>
</tr>
<tr>
<td>Geog 462: Sense of Place</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>-------------</td>
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<tr>
<td>Geog 230</td>
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<td>Geog 321</td>
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<td>Geog 350</td>
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<td>Geog 366</td>
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<td>Geog 368</td>
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<tr>
<td>Geog 407</td>
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<tr>
<td>Geog 450</td>
</tr>
<tr>
<td>Geog 453</td>
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<tr>
<td>Geog 465</td>
</tr>
</tbody>
</table>

Geog 230: required

**Regional Geography: (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geog 230</td>
<td>Environment and Society: Global Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>Geog 321</td>
<td>Mt. Hood</td>
<td>4</td>
</tr>
<tr>
<td>Geog 350</td>
<td>Geography of World Affairs</td>
<td>4</td>
</tr>
<tr>
<td>Geog 351</td>
<td>Pacific Northwest</td>
<td>4</td>
</tr>
<tr>
<td>Geog 352</td>
<td>The Himalaya and Tibet</td>
<td>4</td>
</tr>
<tr>
<td>Geog 353</td>
<td>Pacific Rim</td>
<td>4</td>
</tr>
<tr>
<td>Geog 354</td>
<td>Europe</td>
<td>4</td>
</tr>
<tr>
<td>Geog 355</td>
<td>Landscapes of Spain</td>
<td>4</td>
</tr>
<tr>
<td>Geog 356</td>
<td>Russia and Its Neighbors</td>
<td>4</td>
</tr>
<tr>
<td>Geog 360</td>
<td>Latin America</td>
<td>4</td>
</tr>
<tr>
<td>Geog 363</td>
<td>Africa</td>
<td>4</td>
</tr>
<tr>
<td>Geog 364</td>
<td>The Middle East</td>
<td>4</td>
</tr>
<tr>
<td>Geog 366</td>
<td>Historical Geography of North America</td>
<td>4</td>
</tr>
<tr>
<td>Geog 368</td>
<td>United States and Canada</td>
<td>4</td>
</tr>
<tr>
<td>Geog 407</td>
<td>Seminar in Regional Geography</td>
<td>4</td>
</tr>
<tr>
<td>Geog 450</td>
<td>Geography of Portland</td>
<td>4</td>
</tr>
<tr>
<td>Geog 453</td>
<td>Japan</td>
<td>4</td>
</tr>
<tr>
<td>Geog 465</td>
<td>Tuscany: Sustainability in City and Country</td>
<td>4</td>
</tr>
</tbody>
</table>

Geog 230: required

**Geographic Techniques: (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geog 407</td>
<td>Seminar in Research Skills</td>
<td>4</td>
</tr>
<tr>
<td>Geog 420</td>
<td>Field Methods in Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>Geog 425</td>
<td>Field Methods in Human Geography</td>
<td>4</td>
</tr>
<tr>
<td>Geog 475</td>
<td>Digital Compilation and Database Design</td>
<td>4</td>
</tr>
<tr>
<td>Geog 480</td>
<td>Visual Image Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Geog 481</td>
<td>Satellite Image Processing</td>
<td>4</td>
</tr>
<tr>
<td>Geog 482</td>
<td>Digital Image Analysis II: Advanced Remote Sensing</td>
<td>4</td>
</tr>
<tr>
<td>Geog 484</td>
<td>Cartographic Applications of GIS</td>
<td>4</td>
</tr>
<tr>
<td>Geog 485</td>
<td>Map Design and Production</td>
<td>4</td>
</tr>
<tr>
<td>Geog 488</td>
<td>Geographic Information Systems I: Introduction</td>
<td>4</td>
</tr>
<tr>
<td>Geog 489</td>
<td>Building a GIS Database with GPS</td>
<td>4</td>
</tr>
<tr>
<td>Geog 490</td>
<td>GIS Programming</td>
<td>4</td>
</tr>
<tr>
<td>Geog 492</td>
<td>Geographic Information Systems II: Advanced GIS</td>
<td>4</td>
</tr>
<tr>
<td>Geog 493</td>
<td>Digital Terrain Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Geog 494</td>
<td>GIS for Water Resources</td>
<td>4</td>
</tr>
<tr>
<td>Geog 495</td>
<td>Maps, Models, and GIS</td>
<td>4</td>
</tr>
<tr>
<td>Geog 496</td>
<td>Visualization of Spatial Data</td>
<td>4</td>
</tr>
<tr>
<td>Geog 497</td>
<td>Spatial Quantitative Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

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 16 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**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geog 210 Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>Geog 230 Environment and Society: Global Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>Geog 380 Maps and Geographic Information</td>
<td>4</td>
</tr>
<tr>
<td>Geography electives (upper-division)</td>
<td>16</td>
</tr>
</tbody>
</table>

Subtotal: 28

All courses used to satisfy the departmental minor requirements must be graded C- or above.

**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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geog 210</td>
<td>Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geog 230</td>
<td>Environment and Society: Global Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>Geog 380</td>
<td>Maps and Geographic Information</td>
<td>4</td>
</tr>
<tr>
<td>Geog 488</td>
<td>Geographic Information Systems I: Introduction</td>
<td>4</td>
</tr>
<tr>
<td>Geog 492</td>
<td>Geographic Information Systems II: Advanced GIS</td>
<td>4</td>
</tr>
</tbody>
</table>

**Plus three additional courses from the list of electives: (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geog 475</td>
<td>Digital Compilation and Database Design</td>
<td>4</td>
</tr>
<tr>
<td>Geog 480</td>
<td>Visual Image Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Geog 481</td>
<td>Satellite Image Processing</td>
<td>4</td>
</tr>
<tr>
<td>Geog 482</td>
<td>Digital Image Analysis II: Advanced Remote Sensing</td>
<td>4</td>
</tr>
</tbody>
</table>
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 department chair
(See Interdisciplinary Studies (p. 217))

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. 160).

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. 47). 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. 218).

**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, geomicrobiology, 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. 7) 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**

<table>
<thead>
<tr>
<th>Geology Courses (51-52 credits):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>G 201 Geology</td>
<td>3</td>
</tr>
<tr>
<td>G 202 Geology</td>
<td>3</td>
</tr>
<tr>
<td>G 204 Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>G 205 Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>G 207 Computer Based Geology</td>
<td>2</td>
</tr>
<tr>
<td>G 203 Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>G 206 Historical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>G 312 Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>G 313 Methods in Mineralogy</td>
<td>2</td>
</tr>
<tr>
<td>G 314 Petrology</td>
<td>3</td>
</tr>
<tr>
<td>G 315 Lithology and Petrography</td>
<td>2</td>
</tr>
<tr>
<td>G 318 Processes in the Surface Environment</td>
<td>3</td>
</tr>
<tr>
<td>G 319 Processes in the Surface Environment: Methods</td>
<td>2</td>
</tr>
<tr>
<td>G 324 Computer Applications and Information Technology</td>
<td>5</td>
</tr>
<tr>
<td>G 326 Numerical Modeling of Earth</td>
<td>5</td>
</tr>
</tbody>
</table>
G 434  Structural Geology and Tectonics  5
G 435  Stratigraphy and Sedimentation  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  Geomorphic Processes  4
G 450  Middle School Earth/Space Sciences
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  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
And
EAS 211  Statics  4

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 201  Geology  3
G 202  Geology  3
G 204  Geology Laboratory  1
G 205  Geology Laboratory  1
Or
G 207  Computer Based Geology Laboratory  2

G 203  Historical Geology  3
G 206  Historical Geology Lab  1
G 200  Field Studies  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  Geomorphic Processes  4
G 450  Middle School Earth/Space Sciences  4
G 453  Geology of the Pacific Northwest  4
G 454  Cascade Volcanoes  1
Up to 8 credits may be taken in upper-division math, science, or engineering.

**Eight credits from the following courses:**
- G 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 Geomorphic Processes 4
- G 452 Minerals in World Affairs 4
- G 453 Natural History of Dinosaurs 4
- G 454 Geology of the Pacific Northwest 4
- G 455U Life in the Universe 4
- G 456 Exploring Mars 4
- G 457U Geology of the Oregon Country 4

**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
  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 Geology 3
- G 202 Geology 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

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 Geology 3
- G 202 Geology 3
- G 204 Geology Laboratory 1
- G 205 Geology Laboratory 1
  Or
- G 207 Computer Based Geology Laboratory 2

G 460 Soil Geomorphology 4
  Or
- G 461 Environmental Geology 4

**Sixteen upper-division credits chosen from:**
- G 312 Mineralogy 3
- G 313 Methods in Mineralogy 2
- G 318 Processes in the Surface Environment 3
- G 319 Processes in the Surface Environment: Methods 2
- G 322 Global Biogeochemical Cycles 5
- G 324 Computer Applications 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  Stratigraphy and Sedimentation 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  Computer Applications 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  Geology 3  
G 204  Geology Laboratory 1  
G 202  Geology 3  
G 205  Geology Laboratory 1  
G 207  Computer Based Geology Laboratory 2  
Ph 121  General Astronomy 4  
Ph 122  General Astronomy 4  
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  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. 238).

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. 238).

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. 160) 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. 47). 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.

GEOPOLY 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 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 colloquia (Hst 405) and seminars (Hst 407) 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. 7) 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)
- Hst 300 The Historical Imagination 4
- Hst 405 Reading Colloquium 4
- Hst 407 Seminar 4
- Hst 495 Comparative World History 4
- Upper-division electives in history 32-44

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 405 Reading Colloquium 4
- Hst 407 Seminar 4
- Hst 495 Comparative World History 4
- History Electives 16

Subtotal: 32

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hst 387</td>
<td>History of Modern Science</td>
<td>4</td>
</tr>
<tr>
<td>Phil 470</td>
<td>Philosophy of Science</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td>Phil 471</td>
<td>Topics in Philosophy of Science</td>
</tr>
</tbody>
</table>

### Six elective courses chosen from (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 325</td>
<td>Culture, Health, and Healing</td>
<td>4</td>
</tr>
<tr>
<td>Anth 414</td>
<td>Culture and Ecology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 346</td>
<td>Genes and Society</td>
<td>4</td>
</tr>
<tr>
<td>Ch 170</td>
<td>Fundamentals of Environmental Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>Ch 360</td>
<td>Origins of Life on Earth</td>
<td>4</td>
</tr>
<tr>
<td>CS 346</td>
<td>Exploring Complexity in Science and Technology</td>
<td>4</td>
</tr>
<tr>
<td>Ec 460</td>
<td>History of Economic Thought</td>
<td>4</td>
</tr>
<tr>
<td>ESM 330</td>
<td>Environmental and Ecological Literacy</td>
<td>4</td>
</tr>
<tr>
<td>G 333</td>
<td>Evolutionary Concepts</td>
<td>4</td>
</tr>
<tr>
<td>Geog 366</td>
<td>Historical Geography of North America</td>
<td>4</td>
</tr>
<tr>
<td>Geog 347</td>
<td>Environmental Issues and Action</td>
<td>4</td>
</tr>
<tr>
<td>Hst 427</td>
<td>Topics in the History of Science and Intellectual History</td>
<td>4</td>
</tr>
<tr>
<td>Hst 440</td>
<td>American Environmental History</td>
<td>4</td>
</tr>
<tr>
<td>Hst 441</td>
<td>American Environmental History</td>
<td>4</td>
</tr>
<tr>
<td>Hst 460</td>
<td>Topics in European Intellectual History</td>
<td>4</td>
</tr>
<tr>
<td>Mth 486</td>
<td>Topics in The History of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Phil 301</td>
<td>Ancient Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>Phil 303</td>
<td>Early Modern Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>Phil 305</td>
<td>Philosophy of Medicine</td>
<td>4</td>
</tr>
<tr>
<td>Phil 306</td>
<td>Science and Pseudoscience</td>
<td>4</td>
</tr>
<tr>
<td>Phil 307</td>
<td>Introduction to the Philosophy of Social Science</td>
<td>4</td>
</tr>
<tr>
<td>Phil 318</td>
<td>Philosophy of Medicine</td>
<td>4</td>
</tr>
<tr>
<td>Phil 470</td>
<td>Philosophy of Science</td>
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<tr>
<td>Phil 471</td>
<td>Topics in Philosophy of Science</td>
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<tr>
<td>PS 319</td>
<td>Politics of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>Sci 321</td>
<td>Energy and Society</td>
<td>4</td>
</tr>
<tr>
<td>Sci 347</td>
<td>Science, Gender, and Social Context I</td>
<td>4</td>
</tr>
<tr>
<td>Sci 348</td>
<td>Science, Gender, and Social Context II</td>
<td>4</td>
</tr>
<tr>
<td>Sci 355</td>
<td>Science Through Science Fiction</td>
<td>4</td>
</tr>
<tr>
<td>Sci 359</td>
<td>Biopolitics</td>
<td>4</td>
</tr>
<tr>
<td>Sci 361</td>
<td>Science: Power-Knowledge</td>
<td>4</td>
</tr>
<tr>
<td>Soc 459</td>
<td>Sociology of Health and Medicine</td>
<td>4</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArH 356</td>
<td>Early Medieval Art</td>
<td>4</td>
</tr>
<tr>
<td>ArH 357</td>
<td>Byzantine Art</td>
<td>4</td>
</tr>
<tr>
<td>ArH 358</td>
<td>Romanesque Art</td>
<td>4</td>
</tr>
<tr>
<td>ArH 359</td>
<td>Gothic Art</td>
<td>4</td>
</tr>
<tr>
<td>ArH 361</td>
<td>Northern Renaissance Art</td>
<td>4</td>
</tr>
<tr>
<td>ArH 371</td>
<td>Italian Renaissance Art</td>
<td>4</td>
</tr>
<tr>
<td>ArH 407</td>
<td>Seminar</td>
<td>0-12</td>
</tr>
<tr>
<td>ArH 432</td>
<td>Issues in Gender and Art</td>
<td>4</td>
</tr>
<tr>
<td>ArH 450</td>
<td>Great Periods and Themes in Art and Architecture</td>
<td>4</td>
</tr>
<tr>
<td>Eng 319</td>
<td>Northern European Mythology</td>
<td>4</td>
</tr>
<tr>
<td>Eng 340</td>
<td>Medieval Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 426</td>
<td>Advanced Topics in Medieval Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 447</td>
<td>Major Forces in Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 448</td>
<td>Major Figures in Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 449</td>
<td>Advanced Topics in Cultural Studies</td>
<td>4</td>
</tr>
<tr>
<td>Fr 341</td>
<td>Introduction to French Literature</td>
<td>4</td>
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<tr>
<td>Ger 341</td>
<td>Introduction to German Literature</td>
<td>4</td>
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<tr>
<td>Grk-101-203-First-and-second-year-Greek</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Hst 350</td>
<td>English History from 1066 to 1660</td>
<td>4</td>
</tr>
<tr>
<td>Hst 352</td>
<td>European Women's History to 1700</td>
<td>4</td>
</tr>
<tr>
<td>Hst 354</td>
<td>Early Medieval Europe: 300-1100</td>
<td>4</td>
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<td>Hst 355</td>
<td>Late Medieval Europe, 1100-1450</td>
<td>4</td>
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<tr>
<td>Hst 407</td>
<td>Seminar</td>
<td>1-8</td>
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<tr>
<td>Hst 416</td>
<td>Topics in Roman History</td>
<td>4</td>
</tr>
<tr>
<td>Hst 450</td>
<td>Medieval England</td>
<td>4</td>
</tr>
<tr>
<td>Hst 452</td>
<td>Topics in the History of European Women</td>
<td>4</td>
</tr>
</tbody>
</table>
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
JSt 317  Jewish History from Antiquity to the Medieval Period  4
Lat 101-203 First- and second-year Latin  4
Lat 331  Early Medieval Civilization  4
Phi 302  Medieval Philosophy  4
Span 341  Pre-Modern Cultural and Literary Foundations  4
Span 441  Major Works in Translation  4
TA 471  Theater History: Periods and Topics  1-4
WLL 335  The Icelandic Sagas  4

History Department approval required for: ArH 407, ArH 432, ArH 450, Eng 448, Hst 407, Hst 452, Hst 461, 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. 218).

HISTORY M.A.

See University master’s degree requirements (p. 47). 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 507) 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. While Hst 500 is strongly recommended for all entering graduate students, it is required for those who have not completed an undergraduate course in historiography (Hst 300 or equivalent).

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

Students should ordinarily complete these requirements no later than the point at which they have completed 32 credits of graduate study.

**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—including, but not limited to, Asian or Middle Eastern history—may require language preparation beyond the formal University requirements. Students interested in these areas 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. 43), 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. 159)

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. 7) 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 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 3 - 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 History 4
Hst 467 Readings in Native American History 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

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. 7) 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, geology, mathematics/statistics, physics, and science education.

SOCIAL SCIENCE
The social science academic distribution area consists of courses taken in administration of 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, 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wr 323</td>
<td>Writing as Critical Inquiry</td>
<td>4</td>
</tr>
<tr>
<td>Or WIC course</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

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

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. 47). 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 sciences 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 course-work. 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 Studies

341 East Hall (EH)
725-3455
www.pdx.edu/intl

• B.A.
• Minor
• Certificate in Asian Studies
• Certificate in European Studies
• Certificate in Latin American Studies
• Certificate in Middle East Studies
• Certificate in Contemporary Turkish Studies

The International Studies program 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 select a regional studies or an international development focus for the degree. This degree affords an excellent foundation for careers in which an understanding of international economic, political, social, 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. 7) for more information.

INTERNATIONAL STUDIES B.A.

REQUIREMENTS

In addition to the general University requirements (p. 7) for a degree, majors must have third-year proficiency in an appropriate second language. 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intl 201</td>
<td>Introduction to International Studies</td>
<td>4</td>
</tr>
<tr>
<td>Intl 2xx</td>
<td>Introduction to Regional Studies</td>
<td>4</td>
</tr>
<tr>
<td>Intl 390</td>
<td>Foundations of Global Studies</td>
<td>4</td>
</tr>
<tr>
<td>Intl 396</td>
<td>The United States and the World</td>
<td>4</td>
</tr>
<tr>
<td>Intl 407</td>
<td>Seminar</td>
<td>4</td>
</tr>
<tr>
<td>Intl 471</td>
<td>Understanding the International Experience</td>
<td>4</td>
</tr>
<tr>
<td>Intl 499</td>
<td>Senior International Experience</td>
<td>6</td>
</tr>
</tbody>
</table>

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 (0-38 credits)

Three years, or equivalent proficiency, of language study in one language appropriate to the regional focus. For students taking courses at PSU, third-year proficiency is defined by successful completion of the terminal course in the third-year language sequence or completion of an upper division equivalent. The terminal course for most languages is 303.

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: Kofi Agorsah, adviser, 503-725-5080
Asia: Priya Kapoor, adviser, 503-725-3543
Europe: Evguenia Davidova, adviser, 503-725-8992; Chip Long, adviser, 503-725-3451
Latin America: Shawn Smallman, adviser, 503-725-9978; Stephen Frenkel, adviser, 503-725-5085
Middle East: Tugrul Keskin, adviser, 503-725-3455
International Development Studies: Stephen Frenkel, adviser, 503-725-5085

General Advising: Kimberly Brown (Applied Linguistics), 503-725-8194; Birol Yesilada (Political Science), 503-725-3257

Contemporary Turkish Studies: 503-725-3257

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intl 201</td>
<td>Introduction to International Studies</td>
<td>4</td>
</tr>
<tr>
<td>Intl 390</td>
<td>Foundations of Global Studies</td>
<td>4</td>
</tr>
<tr>
<td>Intl 396</td>
<td>The United States and the World</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>(adviser-approved area-specific or thematic courses)</td>
<td>16</td>
</tr>
</tbody>
</table>

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 Asian Studies, European Studies, Latin American Studies, Middle East, 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 the student’s understanding of a particular world area.

Students must take 24 credits (two years) of one adviser-approved language appropriate to the geographic area of concentration (or demonstrate equivalent proficiency in that language); and they must successfully complete 28 credits of specified 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. 69), 101 East Hall and NSE (National Student Exchange), 105 Neuberger 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/
## 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.

<table>
<thead>
<tr>
<th>Courses:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>JSt 201</td>
<td>Introduction to Judaism</td>
<td>4</td>
</tr>
<tr>
<td>JSt 317</td>
<td>Jewish History from Antiquity to the Medieval Period</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td>Hst 317</td>
<td>Jewish History from Antiquity to the Medieval Period</td>
</tr>
<tr>
<td>JSt 318</td>
<td>Jewish History from the Medieval Period to the Present</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td>Hst 318</td>
<td>Jewish History from the Medieval Period to the Present</td>
</tr>
<tr>
<td>Heb 301</td>
<td>Modern Hebrew Readings</td>
<td>4</td>
</tr>
<tr>
<td>Heb 302</td>
<td>Modern Hebrew Readings</td>
<td>4</td>
</tr>
<tr>
<td>Heb 303</td>
<td>Third-year Modern Hebrew</td>
<td>4</td>
</tr>
<tr>
<td>JSt 407</td>
<td>Seminar</td>
<td>4</td>
</tr>
<tr>
<td>4 credits of JSt 402, JSt 405 or JSt 409</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>24 credits of upper-division JSt courses or instructor approved equivalents</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>4 credits of approved upper division subject area credits outside JSt program</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### 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 317 | Jewish History from Antiquity to the Medieval Period | 4 |
| Or | Hst 317 | Jewish History from Antiquity to the Medieval Period | 4 |
| JSt 319 | Rabbinic Culture in the Roman World | 4 |
| Or | Hst 319 | Rabbinic Culture in the Roman World | 4 |
| JSt 324 | Historical Introduction to the Hebrew Bible/Old Testament | 4 |
| JSt 325 | Retelling the Bible | 4 |

#### Area I: Israel Studies
| JSt 378 | Pagans, Christians and Jews | 4 |
| Or | Hst 378 | Pagans, Christians and Jews | 4 |
| JSt 379 | History of Zionism | 4 |
| Or | Hst 379 | History of Zionism | 4 |
| JSt 388 | History of Modern Israel | 4 |

#### Area J: Judaic
| JSt 319 | Rabbinic Culture in the Roman World | 4 |
| Or | Hst 319 | Rabbinic Culture in the Roman World | 4 |
| JSt 324 | Historical Introduction to the Hebrew Bible/Old Testament | 4 |
| JSt 325 | Retelling the Bible | 4 |
| JSt 381 | Kabbalah: The Jewish Mystical Tradition | 4 |
| Or | Hst 381 | Kabbalah: The Jewish Mystical Tradition | 4 |

#### Area L: Literature, Culture, and the Arts
| JSt 319 | Rabbinic Culture in the Roman World | 4 |
| Or | Hst 319 | Rabbinic Culture in the Roman World | 4 |
| JSt 325 | Retelling the Bible | 4 |
| Eng 330 | Jewish and Israeli Literature | 4 |
| JSt 333 | Israeli Culture and Society | 4 |

#### Area M: Modern Jewish History
| JSt 318 | Jewish History from the Medieval Period to the Present | 4 |
| Or | Hst 318 | Jewish History from the Medieval Period to the Present | 4 |
| JSt 379 | History of Zionism | 4 |
| Or | Hst 379 | History of Zionism | 4 |
| JSt 380 | The Holocaust | 4 |
| JSt 388 | 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, Hst 405, 407, 461, 561, etc.) Area: varies depending on topic.

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 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

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
- Ph.D. in Systems Science—Mathematics

Undergraduate programs

The mathematical sciences have long provided the necessary languages of the physical sciences, but are now also recognized as important components of study for students in computer science, social sciences, business administration, education, and the biological sciences. Mathematics and statistics are also disciplines in themselves and may be studied purely for the excitement and discovery it brings to those who study it. To meet these needs the department offers an array of courses in pure and applied mathematics and statistics.

Students, prospective students, and all persons having an interest in the department are welcome at the office and are
encouraged to visit the Web site. The Web site provides information about the department’s faculty, programs, courses, other services, and its current activities.

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>Mth 261</td>
<td>Introduction to Linear Algebra</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 254</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>Mth 256</td>
<td>Applied Differential Equations I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 271</td>
<td>Mathematical Computing</td>
<td>4</td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 161</td>
<td>Introduction to Programming and Problem-Solving</td>
<td>4</td>
</tr>
</tbody>
</table>

**Mth 311** Introduction to Mathematical Analysis I 4

**Mth 312** Introduction to Mathematical Analysis II 4

**Mth 344** Introduction to Group Theory and Applications

One approved two-term 400-level 6-7

Mth or Stat sequence

Two approved two-term 400-level 6-8

Mth or Stat courses

Two additional approved Mth or Stat courses

**One of the following: (3-4 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 338</td>
<td>Modern College Geometry</td>
<td>4</td>
</tr>
<tr>
<td>Mth 345</td>
<td>Introduction to Ring and Field Theory</td>
<td>4</td>
</tr>
<tr>
<td>Mth 346</td>
<td>Number Theory</td>
<td>4</td>
</tr>
<tr>
<td>Mth 444</td>
<td>Advanced Linear/Multilinear Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**Approved electives are:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 300</td>
<td>Introduction to Mathematical Reasoning</td>
<td>4</td>
</tr>
<tr>
<td>Mth 313</td>
<td>Advanced Multivariate Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Mth 322</td>
<td>Applied Partial Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>Mth 324</td>
<td>Vector Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Mth 338</td>
<td>Modern College Geometry</td>
<td>4</td>
</tr>
<tr>
<td>Mth 343</td>
<td>Applied Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Mth 345</td>
<td>Introduction to Ring and Field Theory</td>
<td>4</td>
</tr>
<tr>
<td>Mth 346</td>
<td>Number Theory</td>
<td>4</td>
</tr>
<tr>
<td>Mth 356</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Mth 411</td>
<td>Introduction to Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 412</td>
<td>Introduction to Real Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 413</td>
<td>Introduction to Real Analysis III</td>
<td>3</td>
</tr>
<tr>
<td>Mth 420</td>
<td>Introduction to Complexity Theory</td>
<td>3</td>
</tr>
<tr>
<td>Mth 421</td>
<td>Theory of Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 422</td>
<td>Theory of Ordinary Differential Equations II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 423</td>
<td>Theory of Ordinary Differential Equations III</td>
<td>3</td>
</tr>
<tr>
<td>Mth 424</td>
<td>Elementary Differential Geometry I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 425</td>
<td>Elementary Differential Geometry II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 427</td>
<td>Partial Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 428</td>
<td>Partial Differential Equations II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 430</td>
<td>Topics in Mathematical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>Mth 431</td>
<td>Topics in Geometry I</td>
<td>3</td>
</tr>
</tbody>
</table>
### Mathematics B.A./B.S. Options

In addition to the specific required courses (p. 223), 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 322</td>
<td>Applied Partial Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>Mth 421</td>
<td>Theory of Ordinary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 422</td>
<td>Theory of Ordinary Differential Equations II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 424</td>
<td>Elementary Differential Geometry I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 425</td>
<td>Elementary Differential Geometry II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 427</td>
<td>Partial Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 428</td>
<td>Partial Differential Equations II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 430</td>
<td>Topics in Mathematical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>Mth 451</td>
<td>Numerical Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 452</td>
<td>Numerical Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 457</td>
<td>The Mathematical Theory of Games</td>
<td>3</td>
</tr>
<tr>
<td>Mth 458</td>
<td>The Mathematical Theory of Games</td>
<td>3</td>
</tr>
<tr>
<td>Mth 470</td>
<td>Complex Analysis and Boundary Value Problems I</td>
<td>3</td>
</tr>
</tbody>
</table>
### Value Problems I

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Mth 477</td>
<td>Mathematical Control Theory I</td>
<td>3</td>
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<tr>
<td>Mth 478</td>
<td>Mathematical Control Theory II</td>
<td>3</td>
</tr>
</tbody>
</table>

### Option II—Graduate School Preparation

**Recommended electives:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 411</td>
<td>Introduction to Real Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 412</td>
<td>Introduction to Real Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 434</td>
<td>Set Theory and Topology I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 435</td>
<td>Set Theory and Topology II</td>
<td>3</td>
</tr>
<tr>
<td>Mth 441</td>
<td>Introduction to Abstract Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 442</td>
<td>Introduction to Abstract Algebra II</td>
<td>3</td>
</tr>
</tbody>
</table>

### Option III—Statistics

**Recommended electives:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat 461</td>
<td>Introduction to Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>Stat 462</td>
<td>Introduction to Mathematical StatisticsII</td>
<td>3</td>
</tr>
<tr>
<td>Stat 463</td>
<td>Introduction to Mathematical Statistics III</td>
<td>3</td>
</tr>
<tr>
<td>Stat 464</td>
<td>Applied Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Stat 465</td>
<td>Experimental Design: Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>Stat 466</td>
<td>Experimental Design: Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>Stat 467</td>
<td>Applied Probability I</td>
<td>3</td>
</tr>
<tr>
<td>Stat 468</td>
<td>Applied Probability II</td>
<td>3</td>
</tr>
<tr>
<td>SySc 521</td>
<td>Systems Philosophy</td>
<td>4</td>
</tr>
</tbody>
</table>

### Option IV—High School Teaching

**Recommended electives:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 338</td>
<td>Modern College Geometry</td>
<td>4</td>
</tr>
<tr>
<td>Mth 346</td>
<td>Number Theory</td>
<td>4</td>
</tr>
<tr>
<td>Mth 356</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Mth 486</td>
<td>Topics in The History of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Mth 488</td>
<td>Topics in Technology for Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Stat 461</td>
<td>Introduction to Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>Stat 462</td>
<td>Introduction to Mathematical StatisticsII</td>
<td>3</td>
</tr>
<tr>
<td>Psy 311</td>
<td>Human Development</td>
<td>4</td>
</tr>
<tr>
<td>Ed 420</td>
<td>Introduction to Education and Society</td>
<td>4</td>
</tr>
</tbody>
</table>

See Teaching Licensing Requirements (p. 227).

### Option V—Actuarial Science

**Recommended electives:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 161</td>
<td>Introduction to Programming and Problem-Solving</td>
<td>4</td>
</tr>
<tr>
<td>Mth 451</td>
<td>Numerical Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>Mth 452</td>
<td>Numerical Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>Stat 461</td>
<td>Introduction to Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>Stat 462</td>
<td>Introduction to Mathematical StatisticsII</td>
<td>3</td>
</tr>
<tr>
<td>Stat 463</td>
<td>Introduction to Mathematical Statistics III</td>
<td>3</td>
</tr>
<tr>
<td>Stat 464</td>
<td>Applied Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Stat 465</td>
<td>Experimental Design: Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>Stat 466</td>
<td>Experimental Design: Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>Stat 467</td>
<td>Applied Probability I</td>
<td>3</td>
</tr>
<tr>
<td>Stat 468</td>
<td>Applied Probability II</td>
<td>3</td>
</tr>
<tr>
<td>SySc 521</td>
<td>Systems Philosophy</td>
<td>4</td>
</tr>
</tbody>
</table>

### Mathematics and Statistics Honors Track

The Honors Track in Mathematics and Statistics offers an opportunity for outstanding mathematics majors to engage in independent research under the supervision of a faculty member. Students who successfully complete the honors track will receive notice of this distinction on their academic transcripts and on their diplomas.

The requirements for admission to the Mathematics and Statistics Honors Track are:

1. Completion of 12 credits in the Fariborz Maseeh Department of Mathematics and Statistics, 4 of which should be at a 300-level or above;
2. Have a minimum cumulative GPA of 3.5 points and a minimum GPA of 3.67 points in the Mathematics major;
3. Complete application form submitted to the Fariborz Maseeh Department of Mathematics and Statistics no later than three quarters before graduation.

### Requirements

The Mathematics and Statistics Honors Track requirements for graduation are:

#### Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>Mth 254</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>Mth 261</td>
<td>Introduction to Linear Algebra</td>
<td>0-4</td>
</tr>
<tr>
<td>Mth 256</td>
<td>Applied Differential Equations I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 311</td>
<td>Introduction to Mathematical Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 312</td>
<td>Introduction to Mathematical Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 344</td>
<td>Introduction to Group Theory and Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

See Teaching Licensing Requirements (p. 227).
Two approved 400 level sequences  12
One approved elective course  3-4
Mth 401  Research  1-6

One of the following:
Mth 271  Mathematical Computing  4
CS 161  Introduction to Programming and  4
Problem-Solving

The chairman 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 chairman 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 chairman 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  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  4
Mth 344  Introduction to Group Theory and Applications  4
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. 119) 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. 225).

MIDDLE SCHOOL EDUCATION

Students planning to earn a middle school teaching license with an emphasis in mathematics should complete the courses:

**Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 211</td>
<td>Foundations Of Elementary Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 212</td>
<td>Foundations Of Elementary Mathematics II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 213</td>
<td>Foundations Of Elementary Mathematics III</td>
<td>4</td>
</tr>
<tr>
<td>Mth 490</td>
<td>Computing in Mathematics for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Mth 491</td>
<td>Experimental Probability and Statistics for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Mth 492</td>
<td>Problem Solving for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Mth 493</td>
<td>Geometry for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Mth 494</td>
<td>Arithmetic and Algebraic Structures for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Mth 495</td>
<td>Historical Topics in Mathematics for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Mth 496</td>
<td>Concepts of Calculus for Middle School Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

Information about the Graduate Certificate Program in Mathematics for Middle School Teachers can be found in the Graduate Studies section, see Graduate certificates (p. 45).

ELEMENTARY EDUCATION

Before admission to GTEP, students planning to earn an elementary teaching license must complete:

**Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 211</td>
<td>Foundations Of Elementary Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 212</td>
<td>Foundations Of Elementary Mathematics II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 213</td>
<td>Foundations Of Elementary Mathematics III</td>
<td>4</td>
</tr>
</tbody>
</table>

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, the Ph.D. in Mathematics Education, and the Ph.D. in Systems Science–Mathematics.

ADMISSION REQUIREMENTS

**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.

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. The M.S. in Mathematics for Teachers program offers advanced training and specialized courses for secondary school teachers of mathematics.

**Doctor of Philosophy in Mathematical Sciences**

Applications 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.

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.

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

See University master’s degree requirements (p. 47). 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.

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.

MATHEMATICAL SCIENCES PH.D.

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.

SYSTEMS SCIENCE—MATHEMATICS PH.D.

The Fariborz Maseeh Department of Mathematics and Statistics participates in the Systems Science Doctoral Program offering a Ph.D. in systems science-mathematics. Specialized studies in applied and theoretical mathematics, when combined with core area courses and electives, will partially fulfill the requirements for the Ph.D. in systems science-mathematics. For specific requirements for this degree, contact the Fariborz Maseeh Department of Mathematics and Statistics, and for general information related to the Systems Science Ph.D. degree, see Systems Science Ph.D. (p. 162).

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. 212)

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. 7) 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phil 201</td>
<td>Introduction to Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>Phil 300</td>
<td>Philosophical Methods and Concepts</td>
<td>4</td>
</tr>
<tr>
<td>Phil 301</td>
<td>Ancient Philosophy</td>
<td>4</td>
</tr>
</tbody>
</table>
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 DEPARTMENT’S 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

**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. 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. 7) 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 201</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 202</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 203</td>
<td>General Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 211</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 212</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 213</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
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</table>

Or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 221</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 222</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 223</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 215</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 216</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 311</td>
<td>Introduction to Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 312</td>
<td>Introduction to Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 314</td>
<td>Experimental Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 315</td>
<td>Experimental Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 316</td>
<td>Experimental Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 322</td>
<td>Computational Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 424</td>
<td>Classical Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 426</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 431</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>Mth 251</td>
<td>Calculus I</td>
<td>4-0</td>
</tr>
<tr>
<td>Mth 252</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>Mth 254</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>Mth 256</td>
<td>Applied Differential Equations I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 261</td>
<td>Introduction to Linear Algebra</td>
<td>4-0</td>
</tr>
</tbody>
</table>

**One year of general chemistry:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 222</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 223</td>
<td>General Chemistry III</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 228</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 229</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

**At least two of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Ph 411</td>
<td>Introduction to Quantum Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Ph 425</td>
<td>Classical Mechanics II</td>
<td>4</td>
</tr>
<tr>
<td>Ph 432</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>Ph 464</td>
<td>Applied Optics</td>
<td>4</td>
</tr>
</tbody>
</table>

Two courses in a related area of science (8 credits):

or technology (biology, geology, additional chemistry, computer science, electrical circuitry or applied physics)

Environmental Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 201</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 202</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 203</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 211</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 212</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 213</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
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</table>

Or

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 211</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 222</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
<tr>
<td>Ph 223</td>
<td>General Physics (with Calculus)</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 424</td>
<td>Classical Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 411</td>
<td>Introduction to Quantum Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 431</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>Ph 432</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>Ph 434</td>
<td>Methods of Mathematical Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 464</td>
<td>Applied Optics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 451</td>
<td>Electron Microscopy</td>
<td>4</td>
</tr>
<tr>
<td>Ph 322</td>
<td>Computational Physics</td>
<td>4</td>
</tr>
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</table>

Choose one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Ph 471</td>
<td>Atmospheric Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 490</td>
<td>Cellular and Molecular Biophysics</td>
<td>4</td>
</tr>
</tbody>
</table>

One year of general chemistry:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 221</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Ch 222</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Ch 223</td>
<td>General Chemistry III</td>
<td>4</td>
</tr>
<tr>
<td>Ch 227</td>
<td>General Chemistry Laboratory</td>
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<tr>
<td>Ch 228</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Ch 229</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

One year of principles of biology:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 251</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 252</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
<tr>
<td>Bi 253</td>
<td>Principles of Biology</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose 15 credits of electives from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 357</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 476</td>
<td>Population Ecology</td>
<td>5</td>
</tr>
<tr>
<td>G 322</td>
<td>Global Biogeochemical Cycles</td>
<td>5</td>
</tr>
<tr>
<td>G 351</td>
<td>Introduction to Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>G 458</td>
<td>Astrobiology</td>
<td>4</td>
</tr>
<tr>
<td>G 484</td>
<td>Field Geophysics</td>
<td>4</td>
</tr>
<tr>
<td>Geog 310</td>
<td>Climate and Water Resources</td>
<td>4</td>
</tr>
<tr>
<td>Geog 311</td>
<td>Climatology</td>
<td>4</td>
</tr>
<tr>
<td>Geog 312</td>
<td>Climate Variability</td>
<td>4</td>
</tr>
<tr>
<td>Geog 414</td>
<td>Hydrology</td>
<td>4</td>
</tr>
<tr>
<td>Ch 360</td>
<td>Origins of Life on Earth</td>
<td>4</td>
</tr>
<tr>
<td>Ch 426</td>
<td>Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Ch 427</td>
<td>Instrumental Analysis Laboratory</td>
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</tr>
<tr>
<td>CE 371</td>
<td>Environmental Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ESM 221</td>
<td>Applied Environmental Studies: Problem Solving</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESM 222</td>
<td>Applied Environmental Studies: Policy Consideration</td>
<td>4</td>
</tr>
<tr>
<td>ESM 320</td>
<td>Analysis of Environmental Systems I</td>
<td>4</td>
</tr>
<tr>
<td>ESM 321</td>
<td>Analysis of Environmental Systems II</td>
<td>4</td>
</tr>
<tr>
<td>ESM 322</td>
<td>Environmental Risk Assessment</td>
<td>4</td>
</tr>
<tr>
<td>ESM 324</td>
<td>Environmental Systems Laboratory II</td>
<td>2</td>
</tr>
</tbody>
</table>

See adviser for substitutions.

Biomedical Option

Required physics courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 201</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 202</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 203</td>
<td>General Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 211</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 212</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 213</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
</tbody>
</table>
With

Ph 214  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
Ph 215  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1
Ph 216  Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223  1

Ph 311  Introduction to Modern Physics  4
Ph 312  Introduction to Modern Physics  4
Ph 314  Experimental Physics I  4
Ph 316  Experimental Physics I  4
Ph 426  Thermodynamics and Statistical Mechanics  4
Ph 321  Current Electricity  4
Ph 431  Electricity and Magnetism  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 courses:
RTT 331  Radiation Therapy Physics I  4
RTT 430  Radiation Therapy Physics II  4

Required non-physics courses:
Mth 251  Calculus I  0-4
Mth 252  Calculus II  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
Bi 251  Principles of Biology  5
Bi 252  Principles of Biology  5
Bi 253  Principles of Biology  5
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  2
(nonmajors)
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

Subtotal: 129

Other recommended courses:
Ph 315  Experimental Physics I  4

PHYSICS HONORS TRACK
Adviser: E. 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 201</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 202</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 203</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>Ph 211</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 212</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 213</td>
<td>General Physics (with Calculus)</td>
<td>4</td>
</tr>
<tr>
<td>Ph 214</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 215</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 216</td>
<td>Lab for Ph 201, 202, 203 or Ph 211, 212, 213 or Ph 221, 222, 223</td>
<td>1</td>
</tr>
<tr>
<td>Ph 311</td>
<td>Introduction to Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 312</td>
<td>Introduction to Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 314</td>
<td>Experimental Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 315</td>
<td>Experimental Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 316</td>
<td>Experimental Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Ph 322</td>
<td>Computational Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 464</td>
<td>Applied Optics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>Ph 426</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>

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. 47). 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 617</td>
<td>Quantum Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 631</td>
<td>Electromagnetic Fields and Interactions</td>
<td>4</td>
</tr>
<tr>
<td>Ph 624</td>
<td>Classical Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 507</td>
<td>Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Ph 503</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

**Subtotal: 45**

**Non-Thesis Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 617</td>
<td>Quantum Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 617</td>
<td>Quantum Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 618</td>
<td>Quantum Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 631</td>
<td>Electromagnetic Fields and Interactions</td>
<td>4</td>
</tr>
<tr>
<td>Ph 632</td>
<td>Electromagnetic Fields and Interactions</td>
<td>4</td>
</tr>
<tr>
<td>Ph 624</td>
<td>Classical Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 585</td>
<td>Experimental Methods in Applied Physics</td>
<td>4</td>
</tr>
<tr>
<td>Ph 607</td>
<td>Seminar</td>
<td>0-9</td>
</tr>
<tr>
<td>Ph 603</td>
<td>Dissertation</td>
<td>1-16</td>
</tr>
<tr>
<td>Electives</td>
<td>(all from one specialty area)</td>
<td>12</td>
</tr>
</tbody>
</table>

**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**

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 an 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:

- Dental Hygiene
- Nursing
- Radiation Therapy

Students choosing to continue at PSU, rather than pursue a pre-professional transfer program should meet with a faculty 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
- Podiatric Medicine
- 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 sometimes 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. Students have the option of completing the core sciences for the program in one year (including summer term) of intensive study. Postbaccalaureate students, with sufficient background, start with general chemistry in the summer and continue by taking year-long sequences of organic chemistry, biology, and physics simultaneously during the academic year. They then complete remaining prerequisite coursework such as genetics and biochemistry (required by Oregon Health & Science University School of Medicine) after applying to medical school. Some postbaccalaureate students elect to spread the pre-med curriculum out over two years and then apply. This enables them to have more coursework completed before applying and gives them more time to accrue relevant experience.

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.

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.
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

(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:
- CI 432 Computer Applications for the 3
INTEGRATED SCIENCE

Advisers: Dr. Nancy Price, Geology

The integrated science endorsement is valid for teaching all science except biology, chemistry, or physics, and, thus, is the endorsement for teaching science in middle and intermediate schools. Additional science courses beyond the requirements for a major in general studies in science are required for the integrated science endorsement. Courses pertaining to Earth/Space, Life, and Physical Science Content Standards are required. Guidelines for a course of study for the integrated science endorsement include the following.

Earth/Space Content Area: (20 credits)
- Lower division geology with labs/field studies 8
- Upper-division earth science courses 12

Life Science Content Area: (15 credits)
- Bi 251 Principles of Biology 5
- Bi 252 Principles of Biology 5
- Bi 253 Principles of Biology 5

with labs

Physical Science Content Area: (20 credits)
- Upper-level 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

Human Development (4 credits)
- Psy 311 Human Development 4

Subtotal: 86

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 one of the advisers 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 Karen DeVoll, CLAS Advising Center, SMSU M305, devollk@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 (8 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  4
PHE 365  Health Promotion Programs for Children and Youth  4

**Health (4 credits)**

PHE 250  Our Community: Our Health  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 course work 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mth 211</td>
<td>Foundations Of Elementary Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td>Mth 212</td>
<td>Foundations Of Elementary Mathematics II</td>
<td>4</td>
</tr>
<tr>
<td>Mth 213</td>
<td>Foundations Of Elementary Mathematics III</td>
<td>4</td>
</tr>
<tr>
<td>Sci 201</td>
<td>Natural Science Inquiry</td>
<td>4</td>
</tr>
</tbody>
</table>

**Education (8 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  4
PHE 365  Health Promotion Programs for Children and Youth  4

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  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  4
With Ch 107  Introductory Chemistry Laboratory  1

Sci 335  Water in the Environment I  4
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  Geology  3
With 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  4
### 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**

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Educatores</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 420</td>
<td>Introduction to Education and Society</td>
</tr>
<tr>
<td>CI 432</td>
<td>Computer Applications for the Classroom</td>
</tr>
<tr>
<td>Psy 311</td>
<td>Human Development</td>
</tr>
<tr>
<td>Soc 337</td>
<td>Minorities</td>
</tr>
<tr>
<td>SpEd 418</td>
<td>Survey of Exceptional Learners</td>
</tr>
</tbody>
</table>

**Electives (7-10 credits):**

(choose 2 classes)

- Anth 315 American Culture | 4 |
- BSt 302 African American Experience in the 20th Century | 4 |
- ChLa 301 Chicano/Latino Communities | 4 |
- CFS 385 Working with Diverse Families | 4 |
- CFS 390 Sex and the Family | 4 |
- Lib 429 Young Adult Literature | 3 |
- Phil 331 Philosophy of Education | 4 |
- Psy 345 Motivation | 4 |
- Psy 346 Learning | 4 |
- SpEd 460 Outdoor Education/Recreation | 6 |

**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**

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Special Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psy 311</td>
<td>Human Development</td>
</tr>
<tr>
<td>Mth 211</td>
<td>Foundations Of Elementary</td>
</tr>
<tr>
<td>Mth 212</td>
<td>Mathematics I</td>
</tr>
<tr>
<td>Mth 213</td>
<td>Foundations Of Elementary</td>
</tr>
<tr>
<td>Lib 429</td>
<td>Mathematics II</td>
</tr>
<tr>
<td>Lib 429</td>
<td>Or</td>
</tr>
<tr>
<td>Phil 331</td>
<td>Foundations Of Elementary</td>
</tr>
<tr>
<td>Mth 213</td>
<td>Mathematics III</td>
</tr>
<tr>
<td>CFS 385</td>
<td>Computer Applications for the Classroom</td>
</tr>
<tr>
<td>CFS 390</td>
<td>Or</td>
</tr>
<tr>
<td>Lib 429</td>
<td></td>
</tr>
<tr>
<td>Phil 331</td>
<td></td>
</tr>
<tr>
<td>Mth 213</td>
<td></td>
</tr>
<tr>
<td>Psy 345</td>
<td></td>
</tr>
<tr>
<td>Psy 346</td>
<td></td>
</tr>
<tr>
<td>SpEd 460</td>
<td></td>
</tr>
</tbody>
</table>

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.
College of Liberal Arts and Sciences

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);
- 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); 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

**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:

R.W. Lockwood, Criminology and Criminal Justice, 503-725-5164, lockwor@pdx.edu;

C. 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.

**Elective (choose one class): (2-4 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFS 491</td>
<td>Conceptual Foundations in Child and Family Studies</td>
<td>4</td>
</tr>
<tr>
<td>G 355</td>
<td>Geosciences for Elementary Educators</td>
<td>4</td>
</tr>
<tr>
<td>Psy 460</td>
<td>Child Psychology</td>
<td>4</td>
</tr>
<tr>
<td>Psy 461</td>
<td>Psychology of Adolescence and Early Maturity</td>
<td>4</td>
</tr>
<tr>
<td>Sci 311</td>
<td>Teaching Everyday Science</td>
<td>4</td>
</tr>
<tr>
<td>SpEd 455</td>
<td>Working With LEP Children Who Have Special Needs</td>
<td>2</td>
</tr>
<tr>
<td>SpHr 365</td>
<td>Survey of Speech, Language, and Hearing Disorders</td>
<td>4</td>
</tr>
<tr>
<td>SpHr 372</td>
<td>Speech and Language Development in Children</td>
<td>4</td>
</tr>
</tbody>
</table>

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.
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, that is generally advisable only if there is strong reason to believe that the test score was due to factors other than basic aptitude, such as illness or extreme nervousness. 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. 7) 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 |
| Psy electrode 200-level or 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 |


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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Psychology as a Natural Science</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psy 200</td>
<td>Psychology as a Social Science</td>
<td>4</td>
</tr>
<tr>
<td>Psy 204</td>
<td>300- or 400-level psychology courses (excluding 401 to 409)</td>
<td>20</td>
</tr>
</tbody>
</table>

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. 217))

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 56 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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Univariate Quantitative Methods</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psy 521</td>
<td>Multiple Regression and</td>
<td>5</td>
</tr>
<tr>
<td>Psy 522</td>
<td>Multivariate Quantitative Methods</td>
<td></td>
</tr>
</tbody>
</table>
Psy 514  Advanced Applied Social Psychology  4
Psy 515  Advanced Applied Developmental Psychology  4
Psy 516  Advanced Organizational Psychology  4
Psy 503  Thesis  8

The student must submit and defend the thesis at an oral examination.

Subtotal: 56

**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, ethics, and internship.

**REQUIREMENTS**

The required coursework for the Ph.D. program, including the equivalent to the two-year master's program, is as follows:

**Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psy 621</td>
<td>Univariate Quantitative Methods</td>
<td>5</td>
</tr>
<tr>
<td>Psy 622</td>
<td>Multiple Regression and Multivariate Quantitative Methods</td>
<td>5</td>
</tr>
<tr>
<td>Psy 624</td>
<td>Research Design in Applied Psychology</td>
<td>4</td>
</tr>
<tr>
<td>Psy 6xx</td>
<td>Required methodology elective</td>
<td>4</td>
</tr>
<tr>
<td>Psy 614</td>
<td>Advanced Applied Social Psychology</td>
<td>4</td>
</tr>
<tr>
<td>Psy 615</td>
<td>Advanced Applied Developmental Psychology</td>
<td>4</td>
</tr>
<tr>
<td>Psy 616</td>
<td>Advanced Organizational Psychology</td>
<td>4</td>
</tr>
<tr>
<td>Psy 618</td>
<td>Ethics and Professional Issues in Applied Research and Practice</td>
<td>4</td>
</tr>
<tr>
<td>Psy 604</td>
<td>Internship</td>
<td>8</td>
</tr>
<tr>
<td>6XX</td>
<td>Electives in Applied Social and Community Psychology Or</td>
<td>12</td>
</tr>
<tr>
<td>6XX</td>
<td>Electives in Developmental Psychology Or</td>
<td>12</td>
</tr>
<tr>
<td>6XX</td>
<td>Electives in Industrial/Organizational Psychology</td>
<td>12</td>
</tr>
</tbody>
</table>

**Thesis**

The student must submit and defend the thesis at an oral examination.

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. (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 existing science educators. The Center also supports community partnerships which 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 level through their partnership with the Portland Metro STEM Partnership (www.pdxstem.org). It is the administrative home of the Intel Northwest Science Exposition, the Robert Noyce Scholarship Program for pre-service math and science teachers. The CSE also works in partnership with the Louis Stokes Alliance for Minority Participation (LSAMP), a program working to enhance the undergraduate experience for underrepresented students in Science, Technology, Engineering, and Mathematics (STEM). In addition, many CSE faculty members partner with local schools, nonprofits, 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 science inquiry 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.

**Option one** is an MST program designed for those who are preparing to teach informal science, or 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 the MST portion of the Robert Noyce Teacher Scholars Program. Students without Noyce funding, but who are enrolled in the Graduate Teacher Education Program may also use this plan to earn an MST. The goal of the program is to prepare students for teaching in diverse classrooms in high needs schools. This two year program is designed specifically for pre-service K-12 science teachers. The first year of this program includes the part-time Graduate Teacher Education Program, and the MST graduate level science content courses and classes which will support scholarship in the area of science education research. The second year of the Noyce program is primarily focused on continuing the part-time Graduate Teacher Education Program (GTEP), where students complete the requirements to earn a recommendation for an Oregon Teaching Certificate, and complete the master’s science education research project, or thesis. The Noyce program includes a scholarship stipend that supports approximately 80% of the cost of the two year program.

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. in Systems Science—Sociology
- 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
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. 7) for more information.

**SOCIOPY 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soc 200</td>
<td>Introduction to Sociology</td>
<td>4</td>
</tr>
<tr>
<td>Soc 301</td>
<td>Foundations of Sociology I</td>
<td>4</td>
</tr>
<tr>
<td>Soc 302</td>
<td>Foundations of Sociology II</td>
<td>4</td>
</tr>
<tr>
<td>Soc 310</td>
<td>U.S. Society</td>
<td>4</td>
</tr>
<tr>
<td>Soc 320</td>
<td>Globalization</td>
<td>4</td>
</tr>
<tr>
<td>Soc 397</td>
<td>Social Research Methods</td>
<td>5</td>
</tr>
<tr>
<td>Soc 398</td>
<td>Sociology Research Project</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Sociology electives, including</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>at least 12 credits in 400-level</td>
<td></td>
</tr>
<tr>
<td></td>
<td>courses</td>
<td></td>
</tr>
<tr>
<td>Stat 243</td>
<td>Introduction to Probability and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Statistics I</td>
<td></td>
</tr>
</tbody>
</table>

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

**SOCIOPY 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**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soc 200 Introduction to Sociology</td>
<td>4</td>
</tr>
<tr>
<td>Upper-division sociology credits</td>
<td>24</td>
</tr>
</tbody>
</table>

Upper-division sociology credits: 12 credits of which must be numbered 411 through 499

Up to 10 credits taken under the undifferentiated grading option (pass/no pass) can be applied toward fulfilling departmental minor requirements.

Subtotal: 28

**SOCIOPY SECONDARY EDUCATION PROGRAM**

(See Interdisciplinary Studies: Social Science (p. 217)).

**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. 304)

**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 sent to the department:

- Sociology Department Application Form.
- Three letters of recommendation from persons familiar with the applicant’s academic performance.
- A complete set of transcripts of college and university work.
- Graduate Record Examination scores (Aptitude sections). GRE scores not required for Ph.D. applicants.
• A letter of application describing his or her sociological interests.
• A writing sample.

Applicants for the master’s degree are normally expected to have a bachelor’s degree in Sociology. Students with other undergraduate majors may be accepted, however, if they have completed courses in sociological theory, research methods, and statistics, or their equivalents.

Students applying for the PhD 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. 46)).

DEGREE REQUIREMENTS

See University master’s degree requirements (p. 47). Specific departmental requirements are listed below.

SOCIOLOGY M.A./M.S.

The candidate must complete a minimum of 55 graduate credits, including 26 credits in core sociology courses, 20 credits of electives (12 of which may be in departments other than sociology), and 9 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 594 Theory Construction and Research 4
Soc 595 Research Practicum 4
Soc 513 Thesis Workshop 1

Soc 513: (course must be taken twice)

Thesis
Soc 503 Thesis 9

Soc 503: (completed over three terms)

Electives
Two 500-level sociology course 8
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. 218).

SOCIOLOGY AND SOCIAL INEQUALITY PH.D.

Candidates for the Ph.D. in Sociology and Social Inequality must earn a minimum of 51 hours in graduate coursework including 8 credits in core sociology courses, 16 elective credits (8 may be in other departments), and 27 dissertation credits.

REQUIREMENTS

Core
Soc 684 Social Inequality 4
Soc 695 Advanced Methods in Sociology 4

Subtotal: 8

Electives

Subtotal: 16

(at least 8 credits in sociology)

Dissertation
(includes proposal, research project and comprehensive exam)
Psy 603 Dissertation 27

Subtotal: 27

Subtotal: 51

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). Students completing the master’s degree in speech-language pathology have the option of
completing requirements for the Oregon Educational Initial License in Communication Disorders.

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. 7) 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:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Prerequisite Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpHr 262</td>
<td>Voice and Diction</td>
</tr>
<tr>
<td>SpHr 370</td>
<td>Phonetics and Acoustics</td>
</tr>
<tr>
<td>SpHr 371</td>
<td>Anatomy and Physiology of Speech and Swallowing</td>
</tr>
<tr>
<td>SpHr 372</td>
<td>Speech and Language Development in Children</td>
</tr>
<tr>
<td>SpHr 380</td>
<td>Language Disorders in Children</td>
</tr>
<tr>
<td>SpHr 394</td>
<td>Guided Observation</td>
</tr>
<tr>
<td>SpHr 461</td>
<td>Neurology of Speech and Hearing</td>
</tr>
<tr>
<td>SpHr 464</td>
<td>Speech Disorders in Children</td>
</tr>
<tr>
<td>SpHr 487</td>
<td>Hearing Sciences</td>
</tr>
<tr>
<td>SpHr 488</td>
<td>Clinical Audiology</td>
</tr>
<tr>
<td>SpHr 489</td>
<td>Aural Rehabilitation</td>
</tr>
<tr>
<td>SpHr 495</td>
<td>Organic Communication Disorders</td>
</tr>
<tr>
<td>SpHr 496</td>
<td>Introduction to Clinical Management</td>
</tr>
</tbody>
</table>

Requirements also include 8 credits of American Sign Language and 4 credits of an SpHr elective.

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. 37), 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

<table>
<thead>
<tr>
<th>Courses</th>
<th>Prerequisite Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpHr 370</td>
<td>Phonetics and Acoustics</td>
</tr>
<tr>
<td>SpHr 371</td>
<td>Anatomy and Physiology of Speech and Swallowing</td>
</tr>
<tr>
<td>SpHr 372</td>
<td>Speech and Language Development in Children</td>
</tr>
<tr>
<td>SpHr 380</td>
<td>Language Disorders in Children</td>
</tr>
<tr>
<td>SpHr 461</td>
<td>Neurology of Speech and Hearing</td>
</tr>
</tbody>
</table>
SpHr 464  Speech Disorders in Children  4
SpHr 487  Hearing Sciences  4
SpHr 488  Clinical Audiology  4
SpHr 489  Aural Rehabilitation  4
SpHr 495  Organic Communication Disorders  4
SpHr 496  Introduction to Clinical Management  4
Stat 243  Introduction to Probability and Statistics I  4
Stat 244  Introduction to Probability and Statistics II  4
Stat 543  Survey of Statistical Methods  4
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.

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 www.asha.org 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.) (p. 45). 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 year; both cohorts will begin in Fall.

**SPEECH AND HEARING SCIENCES M.A./M.S.**

See University master’s degree requirements (p. 47). Specific departmental requirements are as follows:

**REQUIREMENTS**

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 3 credits of a culminating experience.
3. Coursework. Students must complete fourteen required core courses and three elective courses. A grade of B- or above must be obtained for each course.

**CORE Courses (50 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpHr 530</td>
<td>Clinical Management in Communication Disorders</td>
<td>4</td>
</tr>
<tr>
<td>SpHr 540</td>
<td>Multicultural Topics in Communication Disorders</td>
<td>4</td>
</tr>
<tr>
<td>SpHr 545</td>
<td>Pathways to Professional Practice</td>
<td>2</td>
</tr>
<tr>
<td>SpHr 554</td>
<td>Advanced Speech Sound Disorders: Theories and Application</td>
<td>4</td>
</tr>
</tbody>
</table>
SpHr 558 Symbol Systems in Early Communication 2
SpHr 559 Augmentative and Alternative Communication 2
SpHr 560 Research Methods in Communication Sciences and Disorders 4
SpHr 562 Cognitive Rehabilitation 4
SpHr 563 Adult Language Disorders 4
SpHr 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. 49). 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.

OREGON EDUCATION LICENSURE

Students enrolled in the masters degree program have the option of completing the requirements for the Oregon Education Initial License in Communication Disorders. The initial license is required for employment as a Speech-Language Pathologist in Oregon schools.

REQUIREMENTS

The following undergraduate and graduate courses are required for the initial license:

Courses
SpHr 509 Practicum 18
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 559 Augmentative and Alternative Communication 2
SpHr 560 Research Methods in 4
Communication Sciences and Disorders

SpHr 562 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

and 6 credits of graduate-level electives.

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

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 internships, 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 research.

Women, gender, and sexuality studies students participate in planning the program’s educational, cultural, and social events and advise the faculty on matters of curriculum and educational policy. The program also maintains a resource library open to all students.

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. 7) 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 (28 classroom hours, including a senior seminar, and 8 hours in experiential learning) and 20 credits of WGSS electives (with a minimum of 16 upper-division credits).

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS 101</td>
<td>Introduction to Women's Studies</td>
<td>4</td>
</tr>
<tr>
<td>WS 301</td>
<td>Gender and Critical Inquiry</td>
<td>4</td>
</tr>
<tr>
<td>WS 305</td>
<td>Women of Color Feminisms</td>
<td>4</td>
</tr>
<tr>
<td>WS 307</td>
<td>Women, Activism and Social</td>
<td>4</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS 301</td>
<td>Gender and Critical Inquiry</td>
<td>4</td>
</tr>
<tr>
<td>WS 305</td>
<td>Women of Color Feminisms</td>
<td>4</td>
</tr>
<tr>
<td>WS 307</td>
<td>Women, Activism and Social Change</td>
<td>4</td>
</tr>
<tr>
<td>WS 315</td>
<td>Feminist Analysis</td>
<td>4</td>
</tr>
<tr>
<td>WS 412</td>
<td>Feminist Methodologies</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (16 credits)

Elective requirements may be fulfilled by any of the following core courses or by WGSS electives, including courses cross-listed with other departments or approved by a WGSS adviser.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS 409</td>
<td>Practicum</td>
<td>6</td>
</tr>
<tr>
<td>WS 411</td>
<td>Experiential Learning Seminar</td>
<td>2</td>
</tr>
<tr>
<td>WS 415</td>
<td>Senior Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnSt 231</td>
<td>Gender &amp; Sexualities</td>
<td>4</td>
</tr>
<tr>
<td>WS 332</td>
<td>Race, Class, Gender, and Sexuality in the United States</td>
<td>4</td>
</tr>
<tr>
<td>WS 360</td>
<td>Introduction to Queer Studies</td>
<td>4</td>
</tr>
<tr>
<td>WS 370</td>
<td>History of Sexualities</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 103</td>
<td>Introduction to Social/Cultural Anthropology</td>
<td>4</td>
</tr>
<tr>
<td>Anth 432</td>
<td>Gender in Cross-Cultural Perspective</td>
<td>4</td>
</tr>
<tr>
<td>BSt 342</td>
<td>Black Feminism/Womanism</td>
<td>4</td>
</tr>
<tr>
<td>CFS 390</td>
<td>Sex and the Family</td>
<td>4</td>
</tr>
<tr>
<td>Comm 452</td>
<td>Gender and Race in the Media</td>
<td>4</td>
</tr>
<tr>
<td>Comm 410</td>
<td>Sex and the Media</td>
<td>4</td>
</tr>
<tr>
<td>Eng 372</td>
<td>Topics in Literature, Gender, and Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>Eng 494</td>
<td>Topics in Critical Theory and Methods</td>
<td>4</td>
</tr>
<tr>
<td>Eng 447</td>
<td>Major Forces in Literature</td>
<td>4</td>
</tr>
<tr>
<td>Eng 441</td>
<td>Advanced Topics in Renaissance Culture</td>
<td>4</td>
</tr>
<tr>
<td>PHE 335</td>
<td>Human Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>PHE 410</td>
<td>Sex Education in America</td>
<td>4</td>
</tr>
<tr>
<td>PHE 410</td>
<td>Worldview of Sexual Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 453</td>
<td>Women's Reproductive Health</td>
<td>4</td>
</tr>
<tr>
<td>Phil 369</td>
<td>Philosophy of Sex and Love</td>
<td>4</td>
</tr>
<tr>
<td>Psy 410</td>
<td>Human Sexualities</td>
<td>4</td>
</tr>
<tr>
<td>Psy 431</td>
<td>Psychology of Men and Masculinities</td>
<td>4</td>
</tr>
<tr>
<td>Soc 339</td>
<td>Marriage and Intimacy</td>
<td>4</td>
</tr>
<tr>
<td>Soc 344</td>
<td>Gender and Sexualities</td>
<td>4</td>
</tr>
</tbody>
</table>
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.

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 Arabic, Chinese, Danish, Greek, Modern Hebrew, Italian, Japanese, Korean, Latin, Norwegian, Persian, Portuguese, Russian, Swahili, Swedish, or Turkish 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.

---

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 Topics in Literature, Gender, and Sexuality 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
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—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 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
The Department of World Languages and Literatures offers undergraduate majors in Arabic, Chinese, French, German, Japanese, Persian, 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 language, literature and culture, an additional 8 credits in 400-level language and literature courses, and 4 credits in linguistics (WLL 390, Ling 390, or a linguistics course in the target language). French and Spanish majors must include a minimum of two courses from the 341, 342, 343, 344, 345 sequence and a minimum of 16 400-level credits in their total program.

**REQUIREMENTS**

**Courses**

**Language, literature, and culture (32 credits)**

(in Fr and Span this must include two courses from the 341-342-343-344-345 sequence and at least 8 400-level credits)

**400-level courses in the major language (8 credits)**

(excluding 401-410)

**Adviser-approved electives (8 credits)**

**Linguistics (4 credits)**

WLL 390 Languages of the World 4

Ling 390 Introduction to Linguistics 4

Or a linguistics course in the major language

Subtotal: 52

- Before being admitted to 400-level courses, students will be expected to demonstrate proficiency at a level determined by the individual language program.

- No more than 8 credits of courses numbered 404 (Cooperative Education) may be counted toward the major.

- 20 of the required 52 credits must be taken in residence at PSU (excludes credit by exam but includes study abroad credit from PSU approved programs).

- All courses used to satisfy major requirements must be passed with a grade of C or higher. (C- and P are not acceptable.) Students majoring in a world language must maintain a minimum GPA of 2.50 on all courses used to satisfy the major requirements.

**WORLD LANGUAGE MINOR**

The Department of World Languages and Literatures offers undergraduate minors in 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**

<table>
<thead>
<tr>
<th>Language, literature and culture</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguistics</td>
<td>4</td>
</tr>
</tbody>
</table>

- 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 |
| Hst 315 | Greek History | 4 |
| Hst 316 | Roman History | 4 |
| Lat 330 | Roman Culture | 4 |
| Lat 341 | Roman Literature in Translation | 4 |
| Phil 414 | Plato | 4 |
| Phil 415 | Aristotle | 4 |
| TA 471 | Theater History: Periods and Topics | 1-4 |
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):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rus 325</td>
<td>Russian Phonetics and Phonology</td>
<td>4</td>
</tr>
<tr>
<td>Rus 411</td>
<td>Advanced Russian</td>
<td>4</td>
</tr>
<tr>
<td>Rus 412</td>
<td>Advanced Russian</td>
<td>4</td>
</tr>
<tr>
<td>Rus 413</td>
<td>Advanced Russian</td>
<td>4</td>
</tr>
<tr>
<td>Rus 414</td>
<td>Advanced Russian Grammar</td>
<td>4</td>
</tr>
</tbody>
</table>

Subtotal: 20

Content Classes (3 classes) chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rus 421</td>
<td>Topics in Contemporary Russian Culture</td>
<td>4</td>
</tr>
<tr>
<td>Rus 427</td>
<td>Topics in Russian Literature of the 19th Century</td>
<td>4</td>
</tr>
<tr>
<td>Rus 433</td>
<td>Topics in Russian Literature of the 20th Century</td>
<td>4</td>
</tr>
</tbody>
</table>

Subtotal: 12

Russian Across the Curriculum:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rus 444</td>
<td>Flagship Studies: Globalization</td>
<td>2</td>
</tr>
<tr>
<td>Rus 445</td>
<td>Flagship Studies: Globalization</td>
<td>2</td>
</tr>
<tr>
<td>Rus 446</td>
<td>Flagship Studies: Globalization</td>
<td>2</td>
</tr>
<tr>
<td>Rus 454</td>
<td>Flagship Studies: American Studies</td>
<td>2</td>
</tr>
<tr>
<td>Rus 455</td>
<td>Flagship Studies: European</td>
<td>2</td>
</tr>
<tr>
<td>Rus 456</td>
<td>Flagship Studies: Environmental</td>
<td>2</td>
</tr>
<tr>
<td>Rus 457</td>
<td>Flagship Studies: Russian in the Major</td>
<td>2</td>
</tr>
<tr>
<td>Rus 458</td>
<td>Flagship Studies: Russian in the Major</td>
<td>2</td>
</tr>
<tr>
<td>Rus 459</td>
<td>Flagship Studies: Russian in the Major</td>
<td>2</td>
</tr>
<tr>
<td>UnSt 421</td>
<td>Capstone</td>
<td>6</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguistics</td>
<td>16</td>
</tr>
<tr>
<td>Area Studies</td>
<td>16</td>
</tr>
<tr>
<td>TJFL Methods</td>
<td>8</td>
</tr>
</tbody>
</table>

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, W. Fischer; 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. 119)).
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. 7).

**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;
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 a 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLL 560</td>
<td>Principles of Scholarly Research</td>
<td>4</td>
</tr>
<tr>
<td>WLL 598</td>
<td>Methods of Teaching Foreign Languages</td>
<td>4</td>
</tr>
<tr>
<td>WLL 503</td>
<td>Thesis</td>
<td>6-9</td>
</tr>
<tr>
<td></td>
<td>Additional adviser-approved coursework</td>
<td>20-</td>
</tr>
</tbody>
</table>

**Two of the following (in a chosen language):**

- 551 Poetry 4
- 552 Drama 4
- 553 Prose 4

**Subtotal: 45**

### Non-thesis option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLL 560</td>
<td>Principles of Scholarly Research</td>
<td>4</td>
</tr>
<tr>
<td>WLL 598</td>
<td>Methods of Teaching Foreign Languages</td>
<td>4</td>
</tr>
</tbody>
</table>

|          | Research                                      | 6-9     |
|          | Or other adviser-approved credits             | 6-9     |
|          | Additional adviser-approved coursework        | 20-     |

**Two of the following (in a chosen language):**

- 551 Poetry 4
- 552 Drama 4
- 553 Prose 4

**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. 40).

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 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLL 560</td>
<td>Principles of Scholarly Research</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Other adviser-approved 500-level courses</td>
<td>16</td>
</tr>
</tbody>
</table>

**Two of the following:**

- 551 Poetry 4
- 552 Drama 4
- 553 Prose 4

**Subtotal: 28**

### Secondary language

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>511</td>
<td>Advanced Language</td>
<td>4</td>
</tr>
<tr>
<td>512</td>
<td>Advanced Language</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or other adviser-approved credits</td>
<td>6-9</td>
</tr>
<tr>
<td></td>
<td>Additional adviser-approved coursework</td>
<td>20-</td>
</tr>
</tbody>
</table>

**Two of the following:**

- 593 Linguistics 4
- 595 Linguistics 4
- 584 Stylistics 4

**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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLL 593</td>
<td>Language Proficiency Testing and Teaching</td>
<td>4</td>
</tr>
<tr>
<td>WLL 598</td>
<td>Methods of Teaching Foreign Languages</td>
<td>4</td>
</tr>
<tr>
<td>Fr 594</td>
<td>French Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Fr 597</td>
<td>Applied French Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ger 594</td>
<td>German Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Ger 597</td>
<td>Applied German Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Span 594</td>
<td>Spanish Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>Span 597</td>
<td>Applied Spanish Linguistics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Other adviser-approved courses</td>
<td></td>
</tr>
</tbody>
</table>
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 490 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ec 417</td>
<td>Women in the Economy</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td>WS 340</td>
<td>Women and Gender in America to 1848</td>
</tr>
<tr>
<td>Or</td>
<td>WS 341</td>
<td>Women and Gender in America 1848-1920</td>
</tr>
<tr>
<td>Or</td>
<td>WS 342</td>
<td>Women and Gender in the U.S. 1920 to the Present</td>
</tr>
<tr>
<td>Or</td>
<td>WS 380</td>
<td>Women and Politics</td>
</tr>
<tr>
<td>Ed 420</td>
<td>Introduction to Education and Society</td>
<td>4</td>
</tr>
<tr>
<td>Hst 343</td>
<td>American Family History</td>
<td>4</td>
</tr>
<tr>
<td>Soc 342</td>
<td>Social Psychology: Self, Attitudes and Social Influence</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td>Soc 339</td>
<td>Marriage and Intimacy</td>
</tr>
<tr>
<td>Or</td>
<td>Soc 461</td>
<td>Sociology of the Family</td>
</tr>
<tr>
<td>SW 301</td>
<td>Introduction to Social Work</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td>Coun 441</td>
<td>Introduction to Counseling</td>
</tr>
<tr>
<td>Or</td>
<td>PHE 365</td>
<td>Health Promotion Programs for Children and Youth</td>
</tr>
<tr>
<td>Or</td>
<td>SpEd 418</td>
<td>Survey of Exceptional Learners</td>
</tr>
</tbody>
</table>

Child and Family Studies major requirement (40 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFS 312</td>
<td>Human Development in the Family Setting</td>
<td>4</td>
</tr>
<tr>
<td>CFS 480</td>
<td>Societal Influences on Professional Practice</td>
<td>4</td>
</tr>
<tr>
<td>CFS 481</td>
<td>Family Health Issues</td>
<td>4</td>
</tr>
<tr>
<td>CFS 488</td>
<td>Social Justice in Child and Family Studies</td>
<td>4</td>
</tr>
<tr>
<td>CFS 491</td>
<td>Conceptual Foundations in Child and Family Studies</td>
<td>4</td>
</tr>
<tr>
<td>CFS 492</td>
<td>Families and the State: Effects of Legislation and Policies on Children and Family</td>
<td>4</td>
</tr>
<tr>
<td>CFS 494</td>
<td>Professional Development in Child and Family Studies I</td>
<td>3</td>
</tr>
<tr>
<td>CFS 495</td>
<td>Professional Development in Child and Family Studies II</td>
<td>1</td>
</tr>
<tr>
<td>CFS 496</td>
<td>Professional Development in Child and Family Studies III</td>
<td>2</td>
</tr>
<tr>
<td>CFS 497</td>
<td>Practicum I</td>
<td>5</td>
</tr>
<tr>
<td>CFS 498</td>
<td>Practicum II</td>
<td>5</td>
</tr>
</tbody>
</table>

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 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. 260).

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 socioeconomics. 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: Ben Anderson-Nathe, 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: Ben Anderson-Nathe, Ph.D.

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.

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 fall term only. 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 information and application forms may be obtained by writing: School of Social Work, Portland State University, P.O. Box 751, Portland, OR 97207. The telephone number is 503-725-4712 or 725-3949. Application materials for the M.S.W. program are 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. 50).

**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.” (Revised and accepted by the BSW Program Committee on October 18, 2013).

**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. 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 e-portfolio 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...
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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SW 301</td>
<td>Introduction to Social Work</td>
<td>4</td>
</tr>
<tr>
<td>SW 339</td>
<td>Introduction to Oppression and Privilege</td>
<td>3</td>
</tr>
<tr>
<td>SW 340</td>
<td>Advocacy for Policy Change</td>
<td>4</td>
</tr>
<tr>
<td>SW 341</td>
<td>Social Justice Practice</td>
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</tr>
<tr>
<td>SW 350</td>
<td>Human Behavior Through the Lifespan</td>
<td>4</td>
</tr>
<tr>
<td>SW 351</td>
<td>Beginning Generalist Practice</td>
<td>3</td>
</tr>
<tr>
<td>SW 430</td>
<td>Generalist Practice with Communities and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>SW 431</td>
<td>Generalist Practice with Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>SW 432</td>
<td>Generalist Practice with Groups</td>
<td>3</td>
</tr>
<tr>
<td>SW 450</td>
<td>Social Work Research and Evaluation I</td>
<td>3</td>
</tr>
<tr>
<td>SW 451</td>
<td>Social Work Research and Evaluation II</td>
<td>3</td>
</tr>
<tr>
<td>SW 460</td>
<td>Senior Integrative Portfolio</td>
<td>3</td>
</tr>
</tbody>
</table>

**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/Identit. 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) and prepares students to become professional social workers with the knowledge, values, and skills needed to serve individuals and families, transform communities, influence social policy, and promote social and economic justice. The M.S.W. program offers foundation and advanced coursework and field training that focus on community-based learning in diverse urban and rural real-world laboratories for future social work practice. Students learn from and work collaboratively with world-class faculty who strive to support and prepare students to alleviate today’s critical social problems.

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 required and elective courses. The required core courses are in the following areas: (1) social work practice, (2) social justice and social work, (3) social welfare policy and services, (4) human behavior in the social environment, and (5) research. Core courses also address the following areas: economic and social justice, populations at risk, ethics and values, and diversity. Additionally, students participate in field instruction during each of the two years of full-time study.

The master’s program offers students five plans for course study: (1) a traditional full-time two-year course option; (2) a part-time three- or four-year course option; (3) an advanced standing one-year option; (4) a part-time three-year distance learning option; and (5) an online part-time three-year course option. The foundation curriculum focuses on orienting students to an understanding of practice skills and methods, research, and social policy through a social justice lens. The advanced curriculum offers students the choice of four concentration areas: Health Across the Lifespan; Children, Youth, and Families; Clinical Social Work Practice; and Communities and Organizational Leadership Practice. The advanced curriculum offers several electives that address substance abuse, mental health, health, interpersonal violence, and theory-based and intervention-focused content.

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 2014, one new cohort of students in Salem will begin their program of study. Cohorts in Bend and Eugene will begin their second year of study, and one cohort in Ashland and another cohort in Salem will begin their third year of study. While first year of DO is course work only, second year and third year students have 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 years classes occur on site for these programs. Ashland and Eugene sites will recruit new students for fall 2015.
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 one online course.

Students may combine the M.S.W. with a Masters in Public Health (M.P.H.). To pursue this option, applicants must apply to both programs and work closely with the departments to develop a study plan that meets the requirements of both programs. Two M.P.H. program tracks are available to students who choose the dual degree option: the Health Management and Policy track (administered through the Mark O. Hatfield School of Government) and the Health Promotion track (administered through the School of Community Health). Selecting the combined M.S.W./M.P.H. option requires one additional year of study, on average.

A certificate in gerontology may be obtained through the Institute on Aging while the student completes requirements for the M.S.W. degree. The M.S.W. program offers a course of study to prepare students for licensure as school social workers by the Oregon Teacher Practices and Standards Commission. The School also participates in the Council on Social Work Education, plus 10 credits of bridge courses taken at PSU, and additional requirements or electives are offered.

REQUIREMENTS

The M.S.W. is a 78 credit program. 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 10 credits of bridge courses taken at PSU, and additional requirements, 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 (4 credits each of three terms), SW 515 Skills for the Helping Process - Groups, (3 credits), SW 520 Social Welfare History and Policy (3 credits), SW 530 Skills for the Helping Process - Individuals and Families (3 credits), SW 532 Advocacy and Empowerment (3 credits), SW 539 Social Justice in Social Work (3 credits), SW 540 Human Development Thru the Lifespan (3 credits), SW 541 Societal, Community, and Organizational Structures and Processes (3 credits), SW 550, Research and Evaluation I (3 credits), and SW 551 Research and Evaluation II (3 credits).

The advanced coursework involves an additional 39 credits of advanced graduate courses. There are required concentration courses (3 credits each of the three terms). The concentrations are either: 1) Clinical Social Work Practice, 2) Practice and Leadership with Communities and Organizations, 3) Social Work with Children, Youth, and Families, or 4) Health Across the Lifespan. An advanced field placement is required across three terms and will be 4 credits each term. A total of 18 credits are designated for advanced electives. Students may not receive credit for life experience, previous work experience, nor have any field experience or professional foundation courses waived on this basis.

Students in the M.S.W.-M.P.H. dual degree option may share a maximum of one-third of the credits needed for the smaller degree program. Consequently, students will need 119-124 credits (depending on MPH Program track) to graduate with M.S.W. and M.P.H. degrees.

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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 620</td>
<td>Social Problem Analysis: Assessment Phase</td>
<td>3</td>
</tr>
<tr>
<td>SW 621</td>
<td>Social Problem Analysis: Intervention Phase</td>
<td>3</td>
</tr>
<tr>
<td>SW 622</td>
<td>Social Problem Analysis: Evaluation Phase</td>
<td>3</td>
</tr>
<tr>
<td>SW 630</td>
<td>Empirical Foundations of Knowledge Building in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 631</td>
<td>Introduction to Quantitative Research Methods in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 632</td>
<td>Quantitative Data Analysis in Social Work Research</td>
<td>4</td>
</tr>
<tr>
<td>SW 633</td>
<td>Qualitative Research I: Critical Research Frames and Beginning Practices</td>
<td>3</td>
</tr>
<tr>
<td>SW 634</td>
<td>Quantitative Data Analysis in Social Work Research II</td>
<td>4</td>
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<tr>
<td>SW 635</td>
<td>Qualitative Research II: Collecting Data for Interpretive &amp; Constructivist Research</td>
<td>3</td>
</tr>
<tr>
<td>SW 637</td>
<td>Qualitative Research III: Making Sense of Qualitative Research Findings</td>
<td>3</td>
</tr>
<tr>
<td>SW 640</td>
<td>Research Practicum and Seminar</td>
<td>2</td>
</tr>
<tr>
<td>SW 641</td>
<td>Research Practicum and Seminar</td>
<td>2</td>
</tr>
<tr>
<td>SW 642</td>
<td>Research Practicum and Seminar</td>
<td>2</td>
</tr>
<tr>
<td>SW 650</td>
<td>History and Philosophy of Social Welfare and Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SW 660</td>
<td>Ph.D. Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

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.
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.
- 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

We have a unique advantage: three schools—urban planning, 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.

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.

(p. 298)

Nohad A. Toulan School of Urban Studies and Planning
(p. 298)

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
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.

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 five separate tracks: aging services, community health education, health sciences, physical activity and exercise, and school health.

**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 (p. 7) 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat 243</td>
<td>Introduction to Probability and Statistics I</td>
<td>4</td>
</tr>
<tr>
<td>PHE 250</td>
<td>Our Community: Our Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 295</td>
<td>Health Promotion/Disease Prevention</td>
<td>4</td>
</tr>
<tr>
<td>PHE 350</td>
<td>Health and Health Systems</td>
<td>4</td>
</tr>
<tr>
<td>PHE 443</td>
<td>Environmental Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 450</td>
<td>Epidemiology</td>
<td>4</td>
</tr>
<tr>
<td>PHE 404</td>
<td>Cooperative Education/Internship</td>
<td>1-15</td>
</tr>
</tbody>
</table>

**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 PHE 448, PHE 471, and 36 credits from the list of courses that follows:

**Core coursework (32 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 448</td>
<td>Health Education Techniques and Strategies</td>
<td>4</td>
</tr>
<tr>
<td>PHE 471</td>
<td>Program Planning and Evaluation in Health Education: Theory and Skill Development</td>
<td>4</td>
</tr>
</tbody>
</table>

**Thirty-six credits from the following courses: (36 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 275</td>
<td>Stress Management</td>
<td>4</td>
</tr>
<tr>
<td>PHE 325</td>
<td>Nutrition for Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 326</td>
<td>Drug Education</td>
<td>4</td>
</tr>
<tr>
<td>PHE 335</td>
<td>Human Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>PHE 351</td>
<td>Film and Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 355</td>
<td>Consumer Health Issues</td>
<td>4</td>
</tr>
<tr>
<td>PHE 361</td>
<td>Care and Prevention of Injuries</td>
<td>4</td>
</tr>
<tr>
<td>PHE 363</td>
<td>Communicable Diseases and Chronic Health Problems</td>
<td>4</td>
</tr>
<tr>
<td>PHE 365</td>
<td>Health Promotion Programs for Children and Youth</td>
<td>4</td>
</tr>
<tr>
<td>PHE 414</td>
<td>Physical Activity Today</td>
<td>4</td>
</tr>
<tr>
<td>PHE 444</td>
<td>Global Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 445</td>
<td>Men’s Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 446</td>
<td>Community Health Principles and Practices</td>
<td>4</td>
</tr>
<tr>
<td>PHE 451</td>
<td>Women and Holistic Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 452</td>
<td>Gender, Race, Class and Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 453</td>
<td>Women’s Reproductive Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 454</td>
<td>Social Gerontology</td>
<td>4</td>
</tr>
<tr>
<td>PHE 456</td>
<td>Health Aspects of Aging</td>
<td>4</td>
</tr>
<tr>
<td>PHE 466</td>
<td>Mind/Body Health: Disease Prevention</td>
<td>4</td>
</tr>
<tr>
<td>PHE 467</td>
<td>Mind/Body Health: Human Potential</td>
<td>4</td>
</tr>
<tr>
<td>PHE 480</td>
<td>Controversial Issues in Community Health</td>
<td>4</td>
</tr>
</tbody>
</table>

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:

**Core coursework (32 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 275</td>
<td>Stress Management</td>
<td>4</td>
</tr>
<tr>
<td>Psy 311</td>
<td>Human Development</td>
<td>4</td>
</tr>
<tr>
<td>PHE 325</td>
<td>Nutrition for Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 326</td>
<td>Drug Education</td>
<td>4</td>
</tr>
<tr>
<td>PHE 335</td>
<td>Human Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>PHE 355</td>
<td>Consumer Health Issues</td>
<td>4</td>
</tr>
<tr>
<td>PHE 363</td>
<td>Communicable Diseases and Chronic Health Problems</td>
<td>4</td>
</tr>
<tr>
<td>PHE 365</td>
<td>Health Promotion Programs for Children and Youth</td>
<td>4</td>
</tr>
<tr>
<td>PHE 410</td>
<td>Selected Topics</td>
<td>1-8</td>
</tr>
<tr>
<td>Ed 420</td>
<td>Introduction to Education and Society</td>
<td>4</td>
</tr>
<tr>
<td>PHE 448</td>
<td>Health Education Techniques and Strategies</td>
<td>4</td>
</tr>
<tr>
<td>PHE 466</td>
<td>Mind/Body Health: Disease Prevention</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PHE 467</td>
<td>Mind/Body Health: Human Potential</td>
<td>4</td>
</tr>
<tr>
<td>PHE 471</td>
<td>Program Planning and Evaluation in Health Education: Theory and Skill Development</td>
<td>4</td>
</tr>
</tbody>
</table>

It is required that students who intend to apply to the GTEP program complete an anatomy/physiology sequence.

**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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 301</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 302</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Bi 303</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>PHE 325</td>
<td>Nutrition for Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 370</td>
<td>Applied Kinesiology</td>
<td>4</td>
</tr>
<tr>
<td>PHE 448</td>
<td>Health Education Techniques and Strategies</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PHE 471</td>
<td>Program Planning and Evaluation in Health Education: Theory and Skill Development</td>
<td>4</td>
</tr>
<tr>
<td>PHE 456</td>
<td>Health Aspects of Aging</td>
<td>4</td>
</tr>
<tr>
<td>PHE 473</td>
<td>Physiology of Exercise</td>
<td>4</td>
</tr>
<tr>
<td>PHE 474</td>
<td>Exercise Prescription and Training</td>
<td>4</td>
</tr>
<tr>
<td>PHE 475</td>
<td>Exercise Testing Techniques</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PHE 476</td>
<td>Mind/Body Health: Disease Prevention</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PHE 477</td>
<td>Mind/Body Health: Human Potential</td>
<td>4</td>
</tr>
<tr>
<td>PHE 478</td>
<td>Program Planning and Evaluation in Health Education: Theory and Skill Development</td>
<td>4</td>
</tr>
</tbody>
</table>

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 preprofessional 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](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 community core requirements, students must complete 16 credits from the following upper-division courses:

**16 credits from the following upper-division courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 325</td>
<td>Nutrition for Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 351</td>
<td>Film and Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 354</td>
<td>Social Gerontology</td>
<td>4</td>
</tr>
<tr>
<td>PHE 355</td>
<td>Consumer Health Issues</td>
<td>4</td>
</tr>
<tr>
<td>PHE 361</td>
<td>Care and Prevention of Injuries</td>
<td>4</td>
</tr>
<tr>
<td>PHE 363</td>
<td>Communicable Diseases and Chronic Health Problems</td>
<td>4</td>
</tr>
</tbody>
</table>
PHE 365  Health Promotion Programs for Children and Youth  4
PHE 370  Applied Kinesiology  4
PHE 410  Selected Topics  1-8
PHE 414  Physical Activity Today  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 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:

**Core coursework (32 credits)**
PHE 325  Nutrition for Health  4
PHE 354  Social Gerontology  4
PHE 363  Communicable Diseases and Chronic Health Problems  4
PHE 410  Selected Topics  1-8
PHE 456  Health Aspects of Aging  4
PHE 471  Program Planning and Evaluation in Health Education: Theory and Skill Development  4
Soc 469  Sociology of Aging  4
Psy 462  Psychology of Adult Development and Aging  4

PHE 416  Families and Aging  4

and one of the following:
BA 306  Working with Money for Business Minors  4
BA 316  Working with Customers for Business Minors  4
BA 326  Working with People for Business Minors  4

**16 credits from the following courses**
BA 101  Introduction to Business and World Affairs  4
BA 306  Working with Money for Business Minors  4
BA 316  Working with Customers for Business Minors  4
BA 326  Working with People for Business Minors  4
BA 336  Working with Information for Business Minors  4
BA 346  Working as an Entrepreneur for Business Minors  4
PHE 416  Families and Aging  4
PHE 445  Men’s Health  4
PHE 451  Women and Holistic Health  4
Phi 313  Life and Death Issues  4
Psy 311  Human Development  4
Soc 469  Sociology of Aging  4
Psy 462  Psychology of Adult Development and Aging  4
PHE 410  Global Aging & Health: Focus on Nicaragua  4
PHE 446  Community Health Principles and Practices  4
Ec 316  Introduction to Health Care Economics  4
Comm 318  Family Communication  4
Soc 459  Sociology of Health and Medicine  4

Other electives may be taken with advisor approval.

**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 upperdivision. The requirement for the minor includes:

**Courses**

- **PHE 250** Our Community: Our Health 4
- **PHE 295** Health Promotion/Disease 4
- **PHE 350** Health and Health Systems 4
- **PHE 443** Environmental Health 4
- **PHE 450** Epidemiology 4

Upper-division credits in SCH 8

Other electives may be taken with advisor approval.

Subtotal: 28

**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 32 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 456** Health Aspects of Aging 4
- **Two of the following:**
  - **Soc 469** Sociology of Aging 4
  - **Psy 462** Psychology of Adult Development and Aging 4
  - **PHE 416** Families and Aging 4
  - **PHE 454** Social Gerontology 4
- **One of the following:**
  - **PHE 471** Program Planning and Evaluation in Health Education: Theory and Skill Development 4
  - **PAH 570** Health Administration 3
  - **PAH 588** Program Evaluation and Management In Health Services 3
  - **Ec 316** Introduction to Health Care Economics 4
- **One of the following:**
  - **BA 306** Working with Money for Business Minors 4
  - **BA 316** Working with Customers for Business Minors 4
  - **BA 326** Working with People for Business Minors 4

BA 336 Working with Information for Business Minors 4
BA 346 Working as an Entrepreneur for Business Minors 4

**Elective courses**

- **PHE 250** Our Community: Our Health 4
- **PHE 295** Health Promotion/Disease 4
- **PHE 350** Health and Health Systems 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 370** Applied Kinesiology 4
- **PHE 416** Families and Aging 4
- **PHE 444** Global Health 4
- **PHE 410** International Health and Aging 4
- **PHE 446** Community Health Principles and Practices 4
- **PHE 450** Epidemiology 4
- **PHE 473** Physiology of Exercise 4
- **Ch 250** Nutrition 4

Other electives may be taken with advisor approval.

Subtotal: 32

**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-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 December 1st of each year. The early admission deadline is November 15.

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.

**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)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 512</td>
<td>Principles of Health Behavior I</td>
<td>3</td>
</tr>
<tr>
<td>PHE 530</td>
<td>Epidemiology I</td>
<td>4</td>
</tr>
<tr>
<td>PHE 580</td>
<td>Concepts of Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PAH 574</td>
<td>Health Systems Organization</td>
<td>3</td>
</tr>
</tbody>
</table>

**Health Promotion Required Courses (28 Credits)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 511</td>
<td>Foundations of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHE 517</td>
<td>Community Organizing</td>
<td>3</td>
</tr>
<tr>
<td>PHE 519</td>
<td>Introduction to the Etiology of Disease</td>
<td>3</td>
</tr>
<tr>
<td>PHE 520</td>
<td>Qualitative Research Design</td>
<td>3</td>
</tr>
<tr>
<td>PHE 521</td>
<td>Quantitative Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHE 550</td>
<td>Health Promotion Program Planning</td>
<td>4</td>
</tr>
<tr>
<td>PAH 573</td>
<td>Values and Ethics in Health</td>
<td>3</td>
</tr>
<tr>
<td>PAH 588</td>
<td>Program Evaluation and Management In Health Services</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area of Emphasis (9 credits)**

The student’s academic advisor must approve the 9 credits of Area of Emphasis courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 540</td>
<td>Mass Communication and Health</td>
<td>3</td>
</tr>
<tr>
<td>PHE 541</td>
<td>Media Advocacy and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHE 504</td>
<td>Cooperative Education/Internship</td>
<td>0-15</td>
</tr>
</tbody>
</table>

Subtotal: 60

**HEALTH STUDIES M.A./M.S.**

Students pursuing the M.A./M.S. - Health Studies degree must complete at least 48 graduate credits with a cumulative GPA of 3.00 or higher, including a core of 22 credits, and 24 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 a thesis and an oral defense of the thesis.
### REQUIREMENTS

The following courses are required:

**Common Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 512</td>
<td>Principles of Health Behavior I</td>
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</tr>
<tr>
<td>PHE 520</td>
<td>Qualitative Research Design</td>
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</tr>
<tr>
<td>PHE 521</td>
<td>Quantitative Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHE 530</td>
<td>Epidemiology I</td>
<td>4</td>
</tr>
<tr>
<td>PHE 503</td>
<td>Thesis</td>
<td>0-15</td>
</tr>
</tbody>
</table>

**Concentration Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 507</td>
<td>Seminar</td>
<td>1-9</td>
</tr>
<tr>
<td>PHE 556</td>
<td>Health Aspects of Aging</td>
<td>4</td>
</tr>
<tr>
<td>PHE 558</td>
<td>Perspectives on Aging</td>
<td>3</td>
</tr>
<tr>
<td>PHE 573</td>
<td>Physiology of Exercise</td>
<td>4</td>
</tr>
<tr>
<td>PHE 575</td>
<td>Exercise Testing Techniques</td>
<td>4</td>
</tr>
<tr>
<td>PHE 576</td>
<td>Physical Activity, Health, and Disease</td>
<td>3</td>
</tr>
<tr>
<td>PHE 577</td>
<td>Exercise, Nutrition, and Performance</td>
<td>3</td>
</tr>
<tr>
<td>USP 634</td>
<td>Data Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>Soc 592</td>
<td>Qualitative Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 612</td>
<td>Advanced Principles of Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Common Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 512</td>
<td>Principles of Health Behavior I</td>
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<td>Qualitative Research Design</td>
<td>3</td>
</tr>
<tr>
<td>PHE 521</td>
<td>Quantitative Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PHE 530</td>
<td>Epidemiology I</td>
<td>4</td>
</tr>
<tr>
<td>PHE 503</td>
<td>Thesis</td>
<td>0-15</td>
</tr>
</tbody>
</table>

**Concentration Courses**

<table>
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<tbody>
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<td>PHE 507</td>
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<td>PHE 575</td>
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<td>USP 634</td>
<td>Data Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>Soc 592</td>
<td>Qualitative Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives (3)**

3 credits of elective to be determined by student & advisor.

**Required Methods Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 520</td>
<td>Qualitative Research Design</td>
<td>3</td>
</tr>
<tr>
<td>PHE 624</td>
<td>Advanced Methods in Epidemiologic Research I</td>
<td>3</td>
</tr>
<tr>
<td>PHE 625</td>
<td>Advanced Methods in Epidemiologic Research II</td>
<td>3</td>
</tr>
<tr>
<td>USP 634</td>
<td>Data Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>USP 654</td>
<td>Data Analysis II</td>
<td>4</td>
</tr>
</tbody>
</table>

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:**

<table>
<thead>
<tr>
<th>Three required classes</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 556 Health Aspects of Aging</td>
<td>4</td>
</tr>
<tr>
<td>PHE 558 Perspectives on Aging</td>
<td>3</td>
</tr>
<tr>
<td>SW 544 Mid-Life and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>SW 574 Social Work with Frail Older Adults</td>
<td>3</td>
</tr>
<tr>
<td>Psy 562 Psychology of Adult Development and Aging</td>
<td>4</td>
</tr>
<tr>
<td>Soc 569 Sociology of Aging</td>
<td>4</td>
</tr>
</tbody>
</table>

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

**FOR ALL STUDENTS: Two electives 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.

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 516 Families and Aging</td>
<td>4</td>
</tr>
<tr>
<td>PHE 557 National Long-term Care Policy</td>
<td>3</td>
</tr>
<tr>
<td>PHE 559 Economics of Aging</td>
<td>3</td>
</tr>
<tr>
<td>PHE 560 Mental Health and Aging</td>
<td>3</td>
</tr>
<tr>
<td>PHE 561 Cultural Variations in Aging</td>
<td>3</td>
</tr>
<tr>
<td>PHE 562 Global Aging</td>
<td>3</td>
</tr>
<tr>
<td>PHE 563 Service Learning in Nicaragua: Enhancing Communities for an Aging Society</td>
<td>3</td>
</tr>
<tr>
<td>SW 544 Mid-Life and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>SW 569 Social Work in End-of-Life and Palliative Care</td>
<td>3</td>
</tr>
<tr>
<td>SW 574 Social Work with Frail Older Adults</td>
<td>3</td>
</tr>
<tr>
<td>USP 564 Political and Administrative Issues</td>
<td>3</td>
</tr>
</tbody>
</table>
There may be other approved classes – they will be listed on the web each quarter at www.pdx.edu/ioa/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. The following 510 courses are examples of courses that may be offered by PHE in the field of aging.

PHE 510: Business & Aging
PHE 510: Health & Housing Across the Life course
PHE 510: Images of Aging

Internship Requirements
An internship in an aging-services program or an independent research project, normally during the last term of certificate work.
PHE 501 Research 1-6
PHE 504 Cooperative Education/Internship 0-15

RESEARCH CENTERS AND INSTITUTES

Center for Public Health Studies
450 Urban Center
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/ioa

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
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 consists of three academic divisions:

- Division of Criminology and Criminal Justice (p. 285),
- Division of Political Science (p. 287), and
- Division of Public Administration (p. 291), and six institutes:
  - Criminal Justice Policy Research Institute (p. 296),
  - Center for Public Service (p. 296),
  - the National Policy Consensus Center (p. 306),
  - the Institute for Tribal Administration (p. 296),
  - Center for Turkish Studies (p. 296), and the
  - Center for Women’s Leadership (p. 296).

**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. 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.

**ADMISSION REQUIREMENTS**

More information about the public affairs and policy Ph.D. program and all application forms are available at www.pdx.edu/hatfieldschool. For further assistance, contact the program administrator at papphd@pdx.edu or 503-725-3920. Application materials should be sent (not

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**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. It offers two Ph.D. programs:

- The Public Affairs and Policy Ph.D. program (p. 278) and
- The Health Systems and Policy Ph.D. program (p. 281).

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.

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Oregon Health & Science University, Portland State University, and Oregon State University, dedicated to providing training in gerontology and geriatrics to health professionals.

The OGEC Resource Center, housed within the IOA, provides reference and training materials for geriatric health care, long-term care, and higher education professionals in gerontology and geriatrics across Oregon.

Lifelong Learning

The Senior Adult Learning Center (SALC) provides opportunities for continuous intellectual enrichment and personal growth of older adults. Oregon residents aged 65 and older can register through the SALC to audit Portland State University courses on any topic with no tuition costs on a space-available basis.

The Retired Associates of Portland State University is an affiliated membership organization open to anyone aged 50 or older and sponsored by the Institute on Aging. It provides fellowship for those interested in lifelong learning and leadership opportunities.
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 90 credit hours of required and elective coursework. In addition, the student receives 27 credits for dissertation research and writing.

The credits are distributed as follows:

<table>
<thead>
<tr>
<th>Core Coursework</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of Specialization (Tracks 1-3)</td>
<td>48</td>
</tr>
<tr>
<td>Research Methods</td>
<td>24</td>
</tr>
<tr>
<td>Departmental Dissertation (minimum)</td>
<td>27</td>
</tr>
</tbody>
</table>

Subtotal: 116-120

To meet these credit requirements, relevant past academic coursework and previous professional experience is recognized in these ways:

Up to 30 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

<table>
<thead>
<tr>
<th>Core courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAP 611</td>
</tr>
<tr>
<td>PAP 613</td>
</tr>
<tr>
<td>PAP 614</td>
</tr>
<tr>
<td>PAP 616</td>
</tr>
<tr>
<td>PAP 620</td>
</tr>
<tr>
<td>PAP 621</td>
</tr>
</tbody>
</table>

Subtotal: 18

1. Public Administration and Policy (48 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:

| PAP 634 | Administrative Law | 3 |
| PS 559  | Political and Economic Decision-making | 3 |
| PAP 615 | Administrative Process | 3 |
| PA 540  | Administrative Theory and Behavior | 3 |
| PAP 653 | Policy Analysis: Theoretical Foundations | 3 |

2. Politics and Public Policy (48 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 |

3. Criminology and Criminal Justice (48 credit hours)
Students focus on the causes, prevention, and control of criminal activity and public policy as it affects law enforcement and corrections. Required courses:

| CCJ 615 | Theories of Crime and Justice | 4 |
| CCJ 625 | Criminal Justice Theory | 4 |
| CCJ 630 | Criminal Justice Research | 4 |
| CCJ 635 | Criminal Justice Policy | 4 |

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 Electives | 4 |

Subtotal: 24

Dissertation Research
Students must register for a minimum of 27 credits of 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.

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.

ADMISSION REQUIREMENTS

More information about the public affairs and policy Ph.D. program and all application forms are available at www.pdx.edu/hatfieldschool. For further assistance,
contact the program administrator at papphd@pdx.edu or 503-725-3920. Application materials should be sent (not emailed) to: Public Affairs and Policy Ph.D. Program, Hatfield School of Government, Portland State University, P. O. Box 751, Portland, OR 97207-0751. Applications are accepted for fall admission only; the application deadline is 31 December.

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

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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

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Teaching opportunities

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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 emphasize community-engaged learning and scholarship.

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 application 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 1000 (old scoring system) or 326 (new scoring system), and 4.5 analytic GRE score; minimum TOEFL of 213 computer-based or 550 paper-based. All qualified applicants will be interviewed either in person or by Skype.

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. Students will also 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:

<table>
<thead>
<tr>
<th>Credit Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required core courses</td>
<td>21-27</td>
</tr>
<tr>
<td>Policy courses</td>
<td>19-21</td>
</tr>
<tr>
<td>Health systems courses</td>
<td>12</td>
</tr>
<tr>
<td>Research design and research methods</td>
<td>20-21</td>
</tr>
<tr>
<td>Dissertation seminar</td>
<td>6</td>
</tr>
<tr>
<td>Dissertation credits</td>
<td>27</td>
</tr>
</tbody>
</table>

Subtotal: 105-114

To meet these requirements, upon admission each student’s past masters coursework will be reviewed 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAH 641</td>
<td>Organizational Behavior in Health</td>
<td>3</td>
</tr>
</tbody>
</table>
PAH 671  Service Organizations  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: 3 to 9 credits. 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 and Methods (19-22)
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
PHE 520  Qualitative Research Design  3
Two research methods electives  6-8

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 weekly 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.

Dissertation research

Students will register for PAH 603 Dissertation for a minimum of 27 credits during the research and writing of the dissertation.

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.

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.

**ADMISSION REQUIREMENTS**

Information about the HS&P Ph.D. program and all application forms may be found at [www.pdx.edu/haefieldschool/health-systems-and-policy-phd](http://www.pdx.edu/haefieldschool/health-systems-and-policy-phd). For further assistance, contact the program administrator at hsp@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/haefieldschool/hsp-admission](http://www.pdx.edu/haefieldschool/hsp-admission). Applications are not accepted in hard copy or via email. Applications are accepted for fall admission only; the application deadline is 15 January. Early submission to facilitate processing through SOPHAS is strongly encouraged.

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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.

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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
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. 7) 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 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 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 200</td>
<td>Criminology and Criminal Justice</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 230</td>
<td>Policing in America</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 240</td>
<td>Punishment and Corrections</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 310</td>
<td>American Courts</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 320</td>
<td>Theories of Crime &amp; Justice</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 330</td>
<td>Crime Control Strategies</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 340</td>
<td>Crime Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 380</td>
<td>Criminal Justice Research</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 404</td>
<td>Cooperative Education/Internship</td>
<td>8</td>
</tr>
<tr>
<td>CCJ 420</td>
<td>Criminal Law and Legal</td>
<td>4</td>
</tr>
</tbody>
</table>

**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. Departmental Application form (also available at the Division of CCJ and its web site).
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. Graduate Record Examination (GRE) scores for consideration.
5. 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.

6. Applicants required to submit TOEFL scores to the Office of Admissions should also submit them to the Division (a score of 550 or more is needed).

7. A resume or curriculum vita is optional.

8. Students interested in a Graduate Assistantship should include a completed application form (see CCJ website).

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.

Applicants are required to submit GRE scores for consideration with their application and 2 letters of reference.

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. 6 credit hours of thesis or research project work.

4. 12 credits of elective courses.

Substantive Core

Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 515</td>
<td>Theories of Crime and Justice</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 520</td>
<td>Analysis of Crime and Justice Data</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 525</td>
<td>Criminal Justice Theory</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 530</td>
<td>Criminal Justice Research</td>
<td>4</td>
</tr>
<tr>
<td>CCJ 535</td>
<td>Criminal Justice Policy</td>
<td>4</td>
</tr>
</tbody>
</table>

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. 7) 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 101</td>
<td>United States Government</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td>United States Politics</td>
<td>4</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 101</td>
<td>United States Government</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td>United States Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 204</td>
<td>Comparative Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 205</td>
<td>International Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 208</td>
<td>Introduction to Political Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

Upper Division Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 431</td>
<td>State and Local Politics</td>
<td>4</td>
</tr>
<tr>
<td>PA 313</td>
<td>Fundamentals of Public Service</td>
<td>4</td>
</tr>
</tbody>
</table>

Additional electives (20 credits, minimum of 8 in Political Science)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 312</td>
<td>Legislative Process</td>
<td>4</td>
</tr>
<tr>
<td>PS 331</td>
<td>Oregon Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 417</td>
<td>Interest Groups</td>
<td>4</td>
</tr>
<tr>
<td>PS 416</td>
<td>Political Parties and Elections</td>
<td>4</td>
</tr>
<tr>
<td>PS 421</td>
<td>The Supreme Court and American</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Politics</td>
<td></td>
</tr>
<tr>
<td>PS 424</td>
<td>Law, Politics, and Society</td>
<td>4</td>
</tr>
<tr>
<td>PS 426</td>
<td>The Politics of the News</td>
<td>4</td>
</tr>
</tbody>
</table>

Public Administration options:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 311</td>
<td>Introduction to Civic Engagement</td>
<td>4</td>
</tr>
<tr>
<td>PA 412</td>
<td>Civic Engagement: The Role of</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Governing Institutions</td>
<td></td>
</tr>
<tr>
<td>PA 413</td>
<td>Civic Engagement: The Role of</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Individuals</td>
<td></td>
</tr>
<tr>
<td>PA 414</td>
<td>Civic Engagement: The Role of</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Social Institutions</td>
<td></td>
</tr>
<tr>
<td>PA 417</td>
<td>Ethical Leadership</td>
<td>4</td>
</tr>
<tr>
<td>PA 420</td>
<td>Introduction to Nonprofit</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>PA 425</td>
<td>Grantwriting for Nonprofit Organizations</td>
<td>4</td>
</tr>
</tbody>
</table>

**Field Experience (8 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 404</td>
<td>Cooperative Education/Internship</td>
<td>8</td>
</tr>
</tbody>
</table>

Subtotal: 48

Courses not required for the Public Service Option, but recommended for those interested in public service careers:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm 312</td>
<td>Media Literacy</td>
<td>4</td>
</tr>
<tr>
<td>Comm 313</td>
<td>Communication in Groups</td>
<td>4</td>
</tr>
<tr>
<td>Ec 201</td>
<td>Principles of Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 202</td>
<td>Principles of Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 311</td>
<td>Microeconomic Theory</td>
<td>4</td>
</tr>
<tr>
<td>Ec 312</td>
<td>Macroeconomic Theory</td>
<td>4</td>
</tr>
<tr>
<td>USP 316</td>
<td>Community Organizing and Social Change</td>
<td>4</td>
</tr>
<tr>
<td>USP 317</td>
<td>Introduction to International Community Development</td>
<td>4</td>
</tr>
<tr>
<td>USP 386</td>
<td>Portland Past and Present</td>
<td>4</td>
</tr>
<tr>
<td>USP 419</td>
<td>Population and Society</td>
<td>4</td>
</tr>
<tr>
<td>USP 428</td>
<td>Concepts of Community Development</td>
<td>4</td>
</tr>
</tbody>
</table>

**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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 101</td>
<td>United States Government</td>
<td>4</td>
</tr>
<tr>
<td>Or PS 102</td>
<td>United States Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 204</td>
<td>Comparative Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 205</td>
<td>International Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 208</td>
<td>Introduction to Political Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

**Upper Division Requirements**

Three courses from the following four options (12 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 447</td>
<td>International Organization</td>
<td>4</td>
</tr>
<tr>
<td>PS 448</td>
<td>International Law</td>
<td>4</td>
</tr>
<tr>
<td>PS 449</td>
<td>International Environmental Politics and Law</td>
<td>4</td>
</tr>
<tr>
<td>PS 454</td>
<td>International Political Economy</td>
<td>4</td>
</tr>
</tbody>
</table>

Political Science electives

Five courses from the following options (20 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 352</td>
<td>Introduction to European Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 353</td>
<td>Introduction to Latin American Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 354</td>
<td>Introduction to Asian Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 355</td>
<td>Introduction to African Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 361</td>
<td>Introduction to the Politics of the Middle East</td>
<td>4</td>
</tr>
<tr>
<td>PS 455</td>
<td>Politics of Economic Reform in Emerging Market Countries</td>
<td>4</td>
</tr>
<tr>
<td>PS 460</td>
<td>Political Development in Modern Turkey</td>
<td>4</td>
</tr>
<tr>
<td>PS 461</td>
<td>Politics of Economic Reform in Modern Turkey</td>
<td>4</td>
</tr>
<tr>
<td>PS 466</td>
<td>Politics of China</td>
<td>4</td>
</tr>
<tr>
<td>PS 471</td>
<td>Gender &amp; Politics: A Comparative Perspective</td>
<td>4</td>
</tr>
<tr>
<td>PS 474</td>
<td>Democracy and Development in Latin America</td>
<td>4</td>
</tr>
<tr>
<td>PS 479</td>
<td>Transitions to Democracy</td>
<td>4</td>
</tr>
<tr>
<td>PS 483</td>
<td>Justice in the Modern World</td>
<td>4</td>
</tr>
</tbody>
</table>

**Non-Political Science electives**

Three courses from the following options (12 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ec 340</td>
<td>International Economics</td>
<td>4</td>
</tr>
<tr>
<td>Ec 348</td>
<td>The Globalization Debate: Concept, History, and Theory</td>
<td>4</td>
</tr>
<tr>
<td>Ec 442</td>
<td>The Multinational Enterprise in the World Economy</td>
<td>4</td>
</tr>
<tr>
<td>Ec 445</td>
<td>Comparative Economic Systems</td>
<td>4</td>
</tr>
<tr>
<td>Ec 447</td>
<td>Economics of Transition</td>
<td>4</td>
</tr>
<tr>
<td>Ec 450</td>
<td>Economics of Development</td>
<td>4</td>
</tr>
<tr>
<td>Geog 331</td>
<td>Geography of Globalization</td>
<td>4</td>
</tr>
<tr>
<td>Geog 346</td>
<td>World Population and Food Supply</td>
<td>4</td>
</tr>
<tr>
<td>Intl 397</td>
<td>US Policy and International Development</td>
<td>4</td>
</tr>
<tr>
<td>Intl 490</td>
<td>Global Sustainable Development</td>
<td>4</td>
</tr>
<tr>
<td>Phil 350</td>
<td>International Ethics</td>
<td>4</td>
</tr>
<tr>
<td>Soc 320</td>
<td>Globalization</td>
<td>4</td>
</tr>
<tr>
<td>Soc 420</td>
<td>Urbanization and Community</td>
<td>4</td>
</tr>
<tr>
<td>Soc 450</td>
<td>Sociology of Higher Education</td>
<td>4</td>
</tr>
<tr>
<td>Soc 441</td>
<td>Population and Society</td>
<td>4</td>
</tr>
<tr>
<td>Soc 463</td>
<td>Global Inequalities and Health</td>
<td>4</td>
</tr>
<tr>
<td>Soc 465</td>
<td>Environmental Sociology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Research Project (4 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 405</td>
<td>Reading and Conference</td>
<td>1-6</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 493</td>
<td>Philosophy of the Social Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PS 495</td>
<td>Research Methods for Political Science</td>
<td>4</td>
</tr>
<tr>
<td>PS 403</td>
<td>Honors Thesis</td>
<td>12</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 101</td>
<td>United States Government</td>
<td>4</td>
</tr>
<tr>
<td>PS 102</td>
<td>United States Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 204</td>
<td>Comparative Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 205</td>
<td>International Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 208</td>
<td>Introduction to Political Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

**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. 47), 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 Courses (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  
- M.P.A. (p. 293)  
- M.P.A.: Health Administration (p. 294)  
- M.P.H.: Health Management and Policy (p. 295)  
- E.M.P.A. (p. 295)  
- Graduate Certificate in Nonprofit and Public Management (p. Error! Bookmark not defined.)  
- Ph.D.—Participating Division in Public Affairs and Policy Doctoral Program (p. 278)  
- Ph.D.—Participating Division in Health Systems and Policy Doctoral Program (p. 281)

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. 296) and the Doctor of Philosophy in Health Systems and Policy (p. 281).

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 412U Civic Engagement: The Role of Governing Institutions 4
- PA 413U Civic Engagement: The Role of Individuals 4
- PA 414U Civic Engagement: The Role of Social Institutions 4
- PA 417U Ethical Leadership 4

Other electives (8 credits needed, choose two from below):
- CCJ 350U Ethical Leadership in Criminal Justice 4
- Comm 313U Communication in Groups 4
- ELP 318U Introduction to Educational Leadership in Public Schools 4
- ELP 350U Introduction to Leadership for Sustainability 4
- PA 314U Students as Leaders 4
- PA 420 Introduction to Nonprofit Management 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)

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.

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.

**REQUIREMENTS**

<table>
<thead>
<tr>
<th>Substantive Core (30)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 511 Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PA 513 Administrative Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>PA 533 Public Policy: Origins and Process</td>
<td>3</td>
</tr>
<tr>
<td>PA 534 Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>PA 540 Administrative Theory and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PA 551 Analytic Methods in Public Administration I</td>
<td>3</td>
</tr>
<tr>
<td>PA 552 Analytic Methods in Public Administration II</td>
<td>3</td>
</tr>
<tr>
<td>PA 582 Public Budgeting</td>
<td>3</td>
</tr>
<tr>
<td>PA 585 Financial Management in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PA 590 Human Resource Management in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PA 585: (or economics course approved by adviser)</td>
<td></td>
</tr>
</tbody>
</table>

**Skill Development (9)**

Three of the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 525</td>
<td>Grantwriting for Nonprofit Organizations</td>
</tr>
<tr>
<td>PA 536</td>
<td>Strategic Planning</td>
</tr>
<tr>
<td>PA 545</td>
<td>Organizational Development</td>
</tr>
<tr>
<td>PA 548</td>
<td>Advocacy in the Public Sector</td>
</tr>
<tr>
<td>PA 549</td>
<td>Cross-cultural Communication in the Public Sector</td>
</tr>
<tr>
<td>PA 555</td>
<td>Program Evaluation and Management</td>
</tr>
<tr>
<td>PA 556</td>
<td>Public Contract Management</td>
</tr>
<tr>
<td>PA 557</td>
<td>Operations Research in Public Administration</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 509</td>
<td>Organizational Experience</td>
</tr>
</tbody>
</table>

**Option 2**

For those students who have had at least three years of full-time administrative or management experience in public or nonprofit organizations.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 512</td>
<td>Case Analysis</td>
</tr>
</tbody>
</table>

M.P.A.
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.

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

<table>
<thead>
<tr>
<th>Required Courses (39)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 511</td>
<td>Public Administration</td>
</tr>
<tr>
<td>PA 533</td>
<td>Public Policy: Origins and Process</td>
</tr>
<tr>
<td>PA 534</td>
<td>Administrative Law</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PAH 577</td>
<td>Health Care Law and Regulation</td>
</tr>
<tr>
<td>PA 551</td>
<td>Analytic Methods in Public Administration I</td>
</tr>
<tr>
<td>PA 552</td>
<td>Analytic Methods in Public Administration II</td>
</tr>
<tr>
<td>PA 582</td>
<td>Public Budgeting</td>
</tr>
<tr>
<td>PA 590</td>
<td>Human Resource Management in the Public Sector</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PAH 580</td>
<td>Health Services Human Resources Management</td>
</tr>
<tr>
<td>PAH 541</td>
<td>Organizational Behavior in Health Service Organizations</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PA 540</td>
<td>Administrative Theory and Behavior</td>
</tr>
<tr>
<td>PAH 570</td>
<td>Health Administration</td>
</tr>
<tr>
<td>PAH 571</td>
<td>Health Policy</td>
</tr>
<tr>
<td>PAH 573</td>
<td>Values and Ethics in Health</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PA 513</td>
<td>Administrative Ethics and Values</td>
</tr>
<tr>
<td>PAH 574</td>
<td>Health Systems Organization</td>
</tr>
<tr>
<td>PAH 586</td>
<td>Introduction to Health Economics</td>
</tr>
</tbody>
</table>

Elective Courses (15)

<table>
<thead>
<tr>
<th>Elective Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 525</td>
<td>Grantwriting for Nonprofit Organizations</td>
</tr>
<tr>
<td>PA 545</td>
<td>Organizational Development</td>
</tr>
<tr>
<td>PA 549</td>
<td>Cross-cultural Communication in the Public Sector</td>
</tr>
<tr>
<td>PA 554</td>
<td>Policy Analysis Research</td>
</tr>
<tr>
<td>PA 556</td>
<td>Public Contract Management</td>
</tr>
<tr>
<td>PA 558</td>
<td>Managing Public Projects and Programs: From Local to Global</td>
</tr>
<tr>
<td>PA 562</td>
<td>Managing Employee Performance in the Public Sector</td>
</tr>
<tr>
<td>PA 563</td>
<td>Citizens and Administration</td>
</tr>
<tr>
<td>PAH 544</td>
<td>Leadership and Administration</td>
</tr>
<tr>
<td>PAH 572</td>
<td>Health Politics</td>
</tr>
<tr>
<td>PAH 575</td>
<td>Advanced Health Policy</td>
</tr>
<tr>
<td>PAH 576</td>
<td>Strategic Management of Health Care Organizations</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PA 536</td>
<td>Strategic Planning</td>
</tr>
<tr>
<td>PAH 578</td>
<td>Continual Improvement In Health Care</td>
</tr>
<tr>
<td>PAH 579</td>
<td>Health Information Technology and Systems Management</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PA 550</td>
<td>Managing Information Resources</td>
</tr>
<tr>
<td>PAH 587</td>
<td>Financial Management of Health Services</td>
</tr>
<tr>
<td>PAH 588</td>
<td>Program Evaluation and Management In Health Services</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>PA 555</td>
<td>Program Evaluation and</td>
</tr>
</tbody>
</table>
Management

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
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.

REQUIREMENTS

Core courses (17)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE 530</td>
<td>Epidemiology I</td>
<td>4</td>
</tr>
<tr>
<td>PHPM 512</td>
<td>Epidemiology I</td>
<td>4</td>
</tr>
<tr>
<td>PHPM 524</td>
<td>Introduction to Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>PHE 580</td>
<td>Concepts of Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PHPM 518</td>
<td>Concepts of Environmental Health</td>
<td>4</td>
</tr>
<tr>
<td>PHE 512</td>
<td>Principles of Health Behavior I</td>
<td>3</td>
</tr>
<tr>
<td>PAH 574</td>
<td>Health Systems Organization</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus 15 credits from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 525</td>
<td>Grantwriting for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PA 543</td>
<td>Creating CollaborativeCommunities</td>
<td>3</td>
</tr>
<tr>
<td>PA 545</td>
<td>Organizational Development</td>
<td>3</td>
</tr>
<tr>
<td>PA 549</td>
<td>Cross-cultural Communication in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PA 553</td>
<td>Sustainable Development Policy and Governance</td>
<td>3</td>
</tr>
<tr>
<td>PA 554</td>
<td>Policy Analysis Research</td>
<td>3</td>
</tr>
<tr>
<td>PA 556</td>
<td>Public Contract Management</td>
<td>3</td>
</tr>
<tr>
<td>PA 558</td>
<td>Managing Public Projects and Programs: From Local to Global</td>
<td>3</td>
</tr>
<tr>
<td>PAH 544</td>
<td>Leadership and Governance in Health Services</td>
<td>3</td>
</tr>
<tr>
<td>PAH 570</td>
<td>Health Administration</td>
<td>3</td>
</tr>
<tr>
<td>PAH 572</td>
<td>Health Politics</td>
<td>3</td>
</tr>
<tr>
<td>PAH 575</td>
<td>Advanced Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>PAH 578</td>
<td>Continual Improvement In Health Care</td>
<td>3</td>
</tr>
<tr>
<td>PAH 579</td>
<td>Health Information Technology and Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>PAH 580</td>
<td>Health Services Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>PHE 520</td>
<td>Qualitative Research Design</td>
<td>3</td>
</tr>
<tr>
<td>PHE 541</td>
<td>Media Advocacy and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHE 557</td>
<td>National Long-term Care Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 513</td>
<td>Administrative Ethics and Values</td>
<td>3</td>
</tr>
<tr>
<td>PA 517</td>
<td>Leadership Development for Public Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PA 518</td>
<td>Leading Public Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PA 533</td>
<td>Public Policy: Origins and Process</td>
<td>3</td>
</tr>
<tr>
<td>PA 534</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>PA 539</td>
<td>National Policy Process</td>
<td>3</td>
</tr>
<tr>
<td>PA 540</td>
<td>Administrative Theory and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PA 545</td>
<td>Organizational Development</td>
<td>3</td>
</tr>
<tr>
<td>PA 552</td>
<td>Analytic Methods in Public Administration II</td>
<td>3</td>
</tr>
<tr>
<td>PA 583</td>
<td>Advanced Budgeting Concepts and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PA 590</td>
<td>Human Resource Management in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PA 510</td>
<td>Selected Topics</td>
<td>0-6</td>
</tr>
<tr>
<td>PA 510</td>
<td>Selected Topics</td>
<td>0-6</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 512</td>
<td>Case Analysis</td>
<td>3-6</td>
</tr>
</tbody>
</table>

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,
- Elder Abuse,
- Risk Assessment in Portland Police Bureau’s Domestic Violence Reduction Unit,
- Community Prosecution in Clackamas County,
- Tactical Ethics – Perspectives on Profiling Training, and the
- 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_change.pdf. This form should be returned to Admissions Office in Neuberger Hall.

DEGREE REQUIREMENTS

Requirements for majors

In addition to the general University degree requirements, students in community development must complete the following degree requirements. Substitution of coursework is acceptable only by permission from the School.
COMMUNITY DEVELOPMENT B.A./B.S.

Overview

The Portland area is an exciting place to enroll in our undergraduate major in community development. We understand community development as a process in which people act together to promote the social, economic, political, and physical well being of their community. Students graduating with a degree in community development will be citizen activists, empowered to take leadership roles in public affairs.

Community-based participation in all aspects of government planning and administration is an established part of the political culture of our region. Neighborhood associations are actively involved in land use, housing, and transportation issues. The City of Portland has been practicing community-oriented policing for several years. Public schools are establishing community-based management councils and involving local business firms in curricular design. Community development corporations are growing rapidly in the range and sophistication of their activities. New community-oriented financial institutions and public-private partnerships are emerging to build and maintain affordable housing and to create jobs. We anticipate continued growth in these kinds of activities in the years ahead.

Community Development majors often find careers in not-for-profit organizations, private consulting firms, advocacy groups, and local, regional and state governments. Locally, a graduate may find a career with the City of Portland, Portland Bureau of Housing and Community Development, METRO, or any of Portland’s community development corporations. Community development practitioners work on a range of issues including housing, community organizing, transportation, the environment, and economic development.

For more information about careers in Community Development please see Portland State’s Career Center’s What Can I do with a Major in Community Development: http://www.pdx.edu/careers/majorcommunitydevelopment.html.

Community Development Learning Objectives

Graduates should be prepared for professional practice wherein they will:

1. **Think critically** using appropriate theoretical perspectives about community and community building: apply theoretical frameworks to analyze the elements of a community and understand the various forces working on it; differentiate evaluation from judgment; and evaluate their own perspectives.

2. **Understand the importance of place:** appreciate the sense of place that exists in all communities; observe the ways in which the natural and built environment of a community affects its social structures; and observe the ways in which locality is important to personal identity in a given community.

3. **Uphold the values of democratic decision-making and participatory planning:** enable people in the community to identify their assets and define their needs; include the public in defining the public good; and encourage self-governance.

4. **Commit to civic engagement and civic responsibility:** be informed about local issues; act from a motivation to give back to the community; step readily into the community organizer's role; and be entrepreneurial in support of the development of communities.

5. **Build human capital:** help to build community leadership; impact the development of others in a positive way; build community consensus; and facilitate communication to support community solidarity.

6. **Act to promote social justice:** recognize and appreciate social, cultural, and economic diversity; work against discrimination based on facts such as social class and race; work to empower the disenfranchised; and commit to inclusionary practice.

7. **Understand the importance of maintaining an international perspective and awareness in Community Development:** appreciate the diverse needs and perceptions of the global community, especially the Developing World; observe the ways in which actions in the developed world impact the Developing World; appreciate the unique assets of local global communities; appreciate the ways in which locality is important to community and personal identity; understand similarities and differences between domestic and international community development.

Curriculum

Community-based participation in all aspects of government planning and administration is an established part of the political culture of our region and an important element of a sustainable future. Neighborhood associations are actively involved in land use, housing, and transportation issues. The City of Portland has been practicing community-oriented policing for several years. Public schools are establishing community-based management councils and involving local business firms in curricular design. Community development corporations are growing rapidly in the range and sophistication of their activities. New community-oriented financial institutions and public-private partnerships are emerging to build and maintain affordable housing and to create jobs. We anticipate continued growth in these kinds of activities in the years ahead.
The curriculum is grounded in applied social science and incorporates a great deal of field research. The program takes advantage of the wealth of resources available in the Portland metropolitan area and draws from a variety of academic disciplines and departments.

In addition to the general University degree requirements, students in community development must complete the following degree requirements. Substitution of coursework is acceptable only by permission from the faculty adviser.

REQUIRED CORE CURRICULUM (46 CREDITS)

Community Development Core (12 credits)
The Community Development program begins with three core courses that introduce students to the social, political, cultural and economic aspects of urban life and to the theory and practice of community development.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 300</td>
<td>Introduction to Urban Studies</td>
<td>4</td>
</tr>
<tr>
<td>USP 301</td>
<td>Introduction to Community</td>
<td>4</td>
</tr>
<tr>
<td>USP 302</td>
<td>Theory and Philosophy of Community Development</td>
<td>4</td>
</tr>
</tbody>
</table>

[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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 312</td>
<td>Urban Housing and Development</td>
<td>4</td>
</tr>
<tr>
<td>USP 313</td>
<td>Urban Environmental Issues</td>
<td>4</td>
</tr>
<tr>
<td>USP 316</td>
<td>Community Organizing and Social Change</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 350U</td>
<td>Inclusive Engagement</td>
<td>4</td>
</tr>
<tr>
<td>USP 430</td>
<td>Participatory Research Methods for Community Development</td>
<td>4</td>
</tr>
<tr>
<td>USP 440</td>
<td>Measuring People and Communities in the Urban Context</td>
<td>4</td>
</tr>
<tr>
<td>USP 452</td>
<td>GIS for Community Development</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 460</td>
<td>Community Development Field Seminar</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Internship option</td>
<td>6</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 311U</td>
<td>Introduction to Urban Planning</td>
<td>4</td>
</tr>
<tr>
<td>USP 314</td>
<td>The City in Film</td>
<td>4</td>
</tr>
<tr>
<td>USP 317U</td>
<td>Introduction to International Community Development</td>
<td>4</td>
</tr>
<tr>
<td>USP 324U</td>
<td>Healthy Communities</td>
<td>4</td>
</tr>
<tr>
<td>USP 325U</td>
<td>Community and the Built Environment</td>
<td>4</td>
</tr>
<tr>
<td>USP 326U</td>
<td>Neighborhood Conservation and Change</td>
<td>4</td>
</tr>
<tr>
<td>USP 360</td>
<td>Real Estate Finance I</td>
<td>4</td>
</tr>
<tr>
<td>USP 385U</td>
<td>History of American Cities</td>
<td>4</td>
</tr>
<tr>
<td>USP 386U</td>
<td>Portland Past and Present</td>
<td>4</td>
</tr>
<tr>
<td>USP 419</td>
<td>Population and Society</td>
<td>4</td>
</tr>
<tr>
<td>USP 427</td>
<td>Downtown Revitalization</td>
<td>3</td>
</tr>
<tr>
<td>USP 429</td>
<td>Poverty in the Urban Community</td>
<td>3</td>
</tr>
<tr>
<td>USP 445</td>
<td>Cities and Third World Development</td>
<td>3</td>
</tr>
<tr>
<td>USP 451</td>
<td>Community Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>USP 455</td>
<td>Land Use: Legal Aspects</td>
<td>3</td>
</tr>
<tr>
<td>USP 456</td>
<td>Urban Transportation: Problems and Policies</td>
<td>3</td>
</tr>
<tr>
<td>USP 457</td>
<td>Information Cities</td>
<td>3</td>
</tr>
<tr>
<td>USP 468</td>
<td>Oregon Land Use Law</td>
<td>3</td>
</tr>
<tr>
<td>USP 480</td>
<td>Political Economy of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>USP 490</td>
<td>Green Economics and Sustainable Development</td>
<td>3</td>
</tr>
</tbody>
</table>

CUPA Elective Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 319</td>
<td>Politics of the Environment</td>
<td>4</td>
</tr>
<tr>
<td>PS 331</td>
<td>Oregon Politics</td>
<td>4</td>
</tr>
<tr>
<td>PS 428</td>
<td>The Politics of Law and Order</td>
<td>4</td>
</tr>
<tr>
<td>PS 431</td>
<td>State and Local Politics</td>
<td>4</td>
</tr>
<tr>
<td>PA 311</td>
<td>Introduction to Civic Engagement</td>
<td>4</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
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<td>---------</td>
</tr>
<tr>
<td>PA 312</td>
<td>Foundations of Community Leadership</td>
<td>4</td>
</tr>
<tr>
<td>PA 313</td>
<td>Fundamentals of Public Service</td>
<td>4</td>
</tr>
<tr>
<td>PA 412</td>
<td>Civic Engagement: The Role of Governing Institutions</td>
<td>4</td>
</tr>
<tr>
<td>PA 413</td>
<td>Civic Engagement: The Role of Individuals</td>
<td>4</td>
</tr>
<tr>
<td>PA 414</td>
<td>Civic Engagement: The Role of Social Institutions</td>
<td>4</td>
</tr>
<tr>
<td>PA 417</td>
<td>Ethical Leadership</td>
<td>4</td>
</tr>
</tbody>
</table>

**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 Urban Economics 4
- USP 438 Real Estate Law 3
- 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”.

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**COLLEGE OF URBAN AND PUBLIC AFFAIRS**

**301**
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. 7), 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

<table>
<thead>
<tr>
<th>Sustainable Urban Development</th>
<th>Finance and Policy</th>
<th>Project Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 527 Downtown Revitalization</td>
<td>RE 521 Real Estate Finance I</td>
<td>USP 523 Real Estate Development I</td>
</tr>
<tr>
<td>USP 569 Sustainable Cities and Regions</td>
<td>RE 522 Real Estate Finance II</td>
<td>USP 546 Real Estate Development II</td>
</tr>
<tr>
<td>USP 596 Affordable Housing Finance</td>
<td>RE 573 Housing Economics</td>
<td>USP 624 Development Project Design</td>
</tr>
<tr>
<td>USP 612 Community, Planning, and Ethics</td>
<td>RE 538S Real Estate Law I</td>
<td>RE 531 Executive Perspectives on Real Estate</td>
</tr>
</tbody>
</table>

| 3 | 4 | 4 |
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:

<table>
<thead>
<tr>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>USP 613</td>
</tr>
<tr>
<td>USP 614</td>
</tr>
<tr>
<td>USP 617</td>
</tr>
<tr>
<td>USP 630</td>
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<tr>
<td>USP 634</td>
</tr>
<tr>
<td>USP 683</td>
</tr>
<tr>
<td>USP 697</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 540 History and Theory of Planning</td>
<td>4</td>
</tr>
<tr>
<td>USP 541 Dynamics of Planning Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**and one of the following:**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 594 Planning in the Pacific Northwest</td>
<td>3</td>
</tr>
<tr>
<td>USP 595 Reshaping the Metropolis</td>
<td>3</td>
</tr>
<tr>
<td>USP 549 Regional Planning and Metropolitan Growth Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Methods sequence**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 531 Geographic Information Systems (GIS) for Planners</td>
<td>4</td>
</tr>
<tr>
<td>USP 533 Planning Methods I</td>
<td>4</td>
</tr>
<tr>
<td>USP 535 Planning Methods II</td>
<td>4</td>
</tr>
<tr>
<td>USP 584 Negotiation in the Public Sector</td>
<td>4</td>
</tr>
</tbody>
</table>

**Analytical methods**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 515 Economics: Applications in Urban Studies</td>
<td>4</td>
</tr>
<tr>
<td>USP 525 Design Analysis in Planning</td>
<td>2</td>
</tr>
<tr>
<td>USP 553 Legal Processes in Urban Planning</td>
<td>1</td>
</tr>
</tbody>
</table>

**Workshops**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 558 Planning Workshop</td>
<td>3-6</td>
</tr>
<tr>
<td>USP 559 Internship Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Specializations and Electives**

Subtotal: 28

Subtotal: 72
FIELD PAPER/PROJECT

Students may choose to prepare an original research paper or project in their field of specialization. The research paper or project is meant to demonstrate a student’s ability to integrate and apply material from his or her coursework and is designed in consultation with faculty.

URBAN STUDIES PH.D.

Dynamic metropolitan regions are increasingly seen as central to economic, social, and political development throughout the world. Composed of one or more central cities, suburbs, and adjacent agricultural and natural areas, they are the essential building blocks of the global economy and the sources of social and political innovation. Understanding metropolitan regions and their problems and analyzing policies to shape their evolution are major concerns of the Urban Studies doctoral program. The program explores these issues from multi-disciplinary and interdisciplinary points of view. Through participation in classes and seminars and supervised research and teaching activities, Ph.D. students prepare for careers in institutions of higher education and in research organizations.

CORE REQUIREMENTS

Entering students in the Ph.D. in urban studies take the following common courses:

Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP 613</td>
<td>Urban Economic and Spatial Structure</td>
<td>3</td>
</tr>
<tr>
<td>USP 614</td>
<td>History and Theory of Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>USP 617</td>
<td>The Sociology and Politics of Urban Life</td>
<td>3</td>
</tr>
<tr>
<td>USP 630</td>
<td>Research Design</td>
<td>4</td>
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<tr>
<td>USP 634</td>
<td>Data Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>USP 683</td>
<td>Qualitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>USP 697</td>
<td>Urban Studies Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

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 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
503-725-4068

The Center for Urban Studies, established in 1966, is a multidisciplinary research unit. The Center’s primary research emphases include: Urban services, residential energy, sustainable urban practices, housing and equity, transportation, regional economic analysis. In addition to its research function, the center serves as a resource for community service to units of local government and has sponsored conferences on important urban topics for the interested public.

The center houses the Community Environmental Services (CES) Program, the PSU-China Innovations in Urbanization Program, and the Urban Sustainability Accelerator (USA). CES provides assistance to local communities, governmental agencies, and private organizations on a contractual basis. The PSU-China Innovations in Urbanization Program (http://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 in sustainable development. 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.

The center also provides support for the Center for Transportation Studies. The CTS facilities and conducts multidisciplinary research on transportation issues, and promotes scholarly development and exchange among students, faculty, and transportation professionals.

**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.

**Center for Transportation Studies**

350 Urban Center
502-725-4024
www.cts.pdx.edu

An equitable and efficient transportation system for people and goods has a significant influence on the well-being of every citizen, impacting quality of life and the economy. Social, environmental, and technological trends must be anticipated and incorporated into a “smart” transportation system in order to ensure resource preservation and enhancement of the region’s economic productivity. Toward this end, the Center for Transportation Studies (CTS), a unit within the Center for Urban Studies, strives to stimulate and conduct multidisciplinary research on transportation issues, facilitating the dissemination of information and encouraging the implementation of research results.

CTS holds a weekly, public seminar during the academic year.
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 board; chair, Executive and Audit Committee 2015
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 2014 and may not include changes and appointments made after that time.

Office of the President
Lois Davis (2009) B.S. Chief of Staff, Special Assistant to the President. B.S. 1977 University of Oregon.

Office of Athletics
Michael Seeman (2005) B.S.
Head Volleyball Coach. B.S. 1999 Portland State University.

Barbara Sherwood (2013) M.S.

Jay Sterling (2009) B.B.A.
Head Coach, Men's and Women's Tennis. B.B.A. 2007
The University of Georgia, Athens.

Zack Wallace (2007) B.S.
Associate Athletic Director (Development). B.S.
University of Oregon.

**Academic Affairs Office of the Provost**

Provost; Professor of Geography. Ph.D. 1981 Arizona State University.

Margaret Everett (1996) Ph.D.
Associate Vice Provost and Dean of Graduate Studies;
Professor of Sociology. Ph.D. 1995 Yale University.

Carol Mack (1986) Ph.D.
Vice Provost for Academic Personnel and Leadership Development; Professor of Education. Ph.D. 1988
University of Illinois.

Kevin A. Reynolds (2005) Ph.D.
Vice Provost for Budget, Planning and Internationalization; Professor of Chemistry. Ph.D. 1987
University of South Hampton, England.


**Office of Academic Innovation**

Director of Pedagogy and Platform; Policy Analyst. M.A. 2004 University of Leuven; M.Sc. 2005 University of Amsterdam.

Director, Teaching, Learning, and Assessment. Ed.D. 1999
Portland State University.

Samad Hinton (2014) B.S.
Associate Director of Course and Program Design. B.S. 2005 Florida A&M University.

Amy Spring (1997) M.P.A.
Assistant Director, Community-Based Teaching, Learning, and Assessment. M.P.A 2009 Portland State University.

Kale Brewer (2013) B.A.
Instructional Multimedia Developer. B.A. 2012 Portland State University.

Aifang Gordon (2007) Ph.D.

Molly A. Griffith (2008) M.S.
Instructional Designer. M.S. 2008 Portland State University.

Tauseef Hemayet (2014) M.S.
Instructional Multimedia Developer. M.S. 2014 Winona State University.

Patrice Morris Hudson (2003) M.S.

Suzanne Matthews (2014) M.S.


Toai Nguyen (2014) B.S.
Course Builder Specialist. B.S. 2007 Portland State University.

Vince Schreck (2005) Ed.D.

Mark Terui (2010) M.A.

**Graduate Studies**

Margaret Everett (1996) Ph.D.
Associate Vice Provost and Dean of Graduate Studies;
Professor of Sociology. Ph.D. 1995 Yale University.

**International Affairs**

Ron L. Witczak (1996) B.A.

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.

Rachel Goff (2004) B.A.
Education Abroad Adviser. B.A. 2007 Portland State University.

James Grehan (2005) Ph.D.
Director, Middle East Studies Center. Ph.D. 1999 University of Texas.

Jennifer Hamlow (2012) M.A.
Director, Education Abroad. M.A. 2002 De Paul University.

Paula Harris (1997) M.Ed.

Yoko Honda (2013) M.A.

Rachel Krueger (2014) MS, Ed.
International Student Life Adviser. MS.Ed. 2011 University of Wisconsin.

Masumi Lint (2011) M.A.

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.

Megan McLaughlin (2006) M.A.

Katherine Morrow (1998) B.A.
Program Administrator, Institute for Asian Studies & Confucius Institute. B.A. 1991 Willamette University

Sally Mudimu (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.


Andrea Price (1999) M.A.

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.

Library

Marilyn K. Moody (2012) M.S.
Dean, University Library, Professor. M.S. 1979 University of Illinois.

Humanities Librarian, Associate Professor. M.L.I.S. 1993 University of California, Berkeley.

Humanities & Social Sciences Librarian, Associate Professor. M.A.I.S. 1996 Oregon State University; M.L.I.S. 1989 University of Michigan.

Assistant University Librarian for Administrative Services, Planning, and Digital Initiatives, Associate Professor. M.L.I.S. 2006 Drexel University.


Jill Emery (2011) M.L.I.S.
Collection Development Librarian, Assistant Professor. M.L.I.S. 1995 University of Texas at Austin.

Meredith Farkas (2011) M.L.I.S.
Social Sciences Librarian, Assistant Professor. M.L.I.S. 2004 Florida State University.


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.

Distance Learning Librarian, Senior Instructor. M.L.I.S. 2007 San Jose State University.


Fine and Performing Arts Librarian, Associate Professor. M.L.S. 1997 Emporia State University.

Head of Monographic Cataloging, Associate Professor. Ph.D. 1988 University of California, Berkeley; M.L.S. 1997 Emporia State University.

University Archivist and Head of Special Collections, Assistant 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.
Librarian for History, Black Studies, and Judaic Studies, Assistant Professor. M.S.L.S. 2006 University of North Carolina, Chapel Hill.

Education Librarian, Associate Professor. M.L.I.S. 1995 Wayne State University.

Science Librarian, Professor. M.L.S. 1985 Syracuse University; M.S. 1988 Oregon State University.


Claudia V. Weston (2001) M.L.S.

Kimberly Willson-St. Clair (2011) M.S.
Reference & Instruction Librarian, Instructor. 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.
Principal Serials Cataloger; Associate Professor. M.S.L.S. 1961 Syracuse University School of Information Studies.

Associate Professor Emerita. M.B.A. 1978 University of California, Los Angeles.

Laurence L. Bruseau (1968) M.L.S.

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.

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.


Faye Powell (1985) M.A.
Professor Emerita. M.A. 1982 San Francisco State University.

Terry Rohe (1983) M.L.S.

Gary S. Sampson (1972) M.L.S.


Rosalind C. Wang (1985) M.S.L.S.

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.

Associate Professor Emeritus. M.L.S. 1970 University of Western Ontario (Canada).

Undergraduate Studies
Associate Vice Provost for Undergraduate Success; Dean of Undergraduate Studies. M. Arch. 1994 Cranbrook Academy of Art.

Office of Vice President for Enrollment Management and Student Affairs
Dan Fortmiller (1985) M.S.
Interim Vice President, Enrollment Management & Student Affairs. M.S. 1989 Portland 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.

Dan Valles (2009) M.S.F.A.

Vicki Wise (2010) Ph.D.
Director of Student Affairs Assessment & Research. Ph.D. 2004 University of Nebraska.

Enrollment Management
Cindy Skaruppa (2012) Ed.D.
Associate Vice President for Enrollment Management. Ed.D. 1993 University of Miami.

Yi Cao (2012) Ph.D.
Enrollment Management Data Analyst. Ph.D. 2011 University of Nebraska.

Office of the Registrar
Cynthia H. Baccar (1999) M.S.
Registrar. M.S. 1994 University of Tennessee.

Rossella De Leon (2011) M.A.

Katherine Rousseau (2002) B.S.
Associate Registrar, Student Information Technology. B.S. 2008 Portland State University.

Nicolle Nixon 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.

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.

Christine Campbell (2012) B.A.
Communications Coordinator. B.A. 1993 University of Nevada, Reno.

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.

Steve Immel (2011) B.A.

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.A.
Director, Undergraduate Recruitment and Transfer Student Services. M.A. 2008 Concordia University.

Kanani Porotesano (2006) M.S.
Campus Visits Coordinator. M.S. 2009 Portland State University.

Blake Red Elk (2012) B.A.
Admissions Counselor. B.A. 2006 Cameron University.

Transfer Admissions Counselor B.A. 2003 University of Oregon.
Nicholas Running (2011) B.A.  
Commencement & Outreach Coordinator. B.A. 2010  
Oregon 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.

Justin Strohmeyer (2012) M.A.  

**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**

Phillip W. W. D. Rodgers, Sr. (2007) B.A.  
Director, Student Financial Aid and Scholarships.

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.

**Advising and Career Services**

Mary Ann Barham (1992) M.S.  
Director. M.S. 1991 Portland State University.

Regina Arellano (2009) M.A.  

Jeanne Ellis (2011) B.S.  
Internship Adviser. 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.


Ann Mestrovich (2012) M.A.  
Employer Relations Coordinator. M.A. 2001 American University.

Louise Paradis (1994) M.A.  

Leena Shrestha (2008) M.A.  


Anne-Marie Thompson (2010) M.S.  

Mary Vance (1999) M.A.  

Shoshana Zeisman-Pereyo (2007) M.A.  

**Campus Recreation**

Alex Accetta (2001) M.A.
Director, Campus Recreation. M.A. 1993 Stanford University.

Jen Armbuster (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.

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.

Clara Fisher Johnson (2010) B.A.
Marketing and Outreach Coordinator, B.A. 2005 University of Nevada Reno.

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.

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.

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.

Lissa Kaufman (2006) J.D.
Director, Student Legal Services. J.D. 1996 University of Washington School of Law.

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) B.S.
Sustainability Leadership & Outreach Coordinator. B.S. 2009 Portland State University.
Domanic Thomas (2008) M.A.
Director, Conduct & Community Standards. M.A. 2005 University of Arizona.
G. Lisa Wittorf (2012) M.S.W.
Director, Services for Students with Children. M.S.W. 1988 California State University.

Disability Resource Center
Jen Dugger (2012) M.A.
Director. M.A. 2005 Southeast Missouri State University.
Michele Bromley (2014) M.A.
Inclusive Technology Coordinator. M.A. 2013 Oregon State University.
Darcy Kramer (2007) M.S.
Accommodations Coordinator. M.S. 2007 Portland State University.
Karen Morehouse (2008) M.S.
Intake Specialist. M.S. 2002 Portland 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.
R. Philip Dirks (1989) M.A.
Project Director of Educational Talent Search and Upward Bound. M.A. 1983 Iowa State University.
Cynthia Gómez (1999) M.S.
Director, Cultural Centers; Faculty, University Studies. M.S. 2001 Portland State University.
Andrea Griggs (2012) M.Ed.
Darryl Kelley, Jr. (2006) B.A.
9th-10th Grade Adviser in Upward Bound/ETS: Project PLUS. B.A. 2002, Linfield College.

Emanuel Magaña (2012) M.S.
Program Coordinator, La Casa Latina, Cultural Centers. M.S. 2012 Oregon State University.
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Upward Bound/ETS Adviser. B.S. 2009 Portland State University.
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Learning Center
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Residence Life
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Center for Student Health and Counseling
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Marketing & Communications Coordinator. M.S. 2006 Portland State University.
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Director, Health Promotion & Education. M.S.W. 2001 St. Louis University.

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Psychiatrist. M.D. 1997 Oregon Health & Science University.

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Psychologist. Ph.D. 2002 University of Southern California.

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Campus Sustainability Office
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Capital Projects and Construction
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Facilities and Property Management
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Human Resources
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University Financial Services
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Institute for Sustainable Solutions

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Faculty Fellows


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.

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Sergio Palleroni (2008) M.S.Arch. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Architecture. M.S.Arch. 2006 Massachusetts 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.

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Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Urban Studies and Planning. Ph.D. 2005 University of Washington.


Wayne Wakeland (1978) Ph.D. Faculty Fellow, Institute for Sustainable Solutions; Associate Professor of Systems Science. Ph.D. 1977 Portland State University.

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Alumni Association


Development


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Finance


Operations

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Chief Operating Officer and Vice President of Operations. B.A. University of the Puget Sound.


**Office of University Communications and Marketing**


**Academic Faculty**

**College of the Arts**


Darrell Grant (1997) M.M. Associate Dean, College of the Arts; Professor of Music (jazz). M.M. 1986 University of Miami.

**School of Architecture**

Faculty


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**School of Art & Design**

Faculty

Kate Bingaman (2008) M.F.A. Assistant Professor of Art, M.F.A. 2004 University of Nebraska.


Harrell Fletcher (2004) M.F.A.
Associate Professor of Art. M.F.A. 1994 California College of Arts & Crafts.

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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.

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.

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Assistant Professor of Art. Ph.D. 2010 University of Illinois at Urbana-Champaign.

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Professor of Art. M.F.A 1975 University of Miami.

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Professor of Art, Ph.D. 1984 University of California, Los Angeles.

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Anne McClanan (1999) Ph.D. 
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Professor of Art. Ph.D. 1996 University of Chicago.

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Assistant Professor of Art. M.F.A. 2007 Indiana University, Bloomington.

Emeriti Faculty

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Charles Colbert (2000) Ph.D. 
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Mary A. Constans (1968) M.S. 
Professor Emerita of Art. M.S. 1965 University of Oregon.

Professor Emeritus of Art. M.A. 1973 California State University, Long Beach.

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James L. Hansen (1964) Cert-Fine Arts 

James S. Hibbard (1967) M.A. 
Professor Emeritus of Art. M.A. 1966 University of Iowa.

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Melvin Katz (1966) Cert-Fine Arts 
Professor Emeritus of Art. Cert-Fine Arts 1953 Cooper Union.

Michihiro Kosuge (1978) M.F.A. 

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School of Music 
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Associate Professor of Music (music education). D.M.A. 1993 University of North Texas.

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Professor of Music (percussion). D.M.A. 1987 State University of New York, Stony Brook.

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Professor of Music (cello).
George Colligan (2011) M.A.
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Director, School of Music; Professor of Music (guitar, composition). B.S. 1975 Portland State University.
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Assistant Professor of Music (horn). 2008 D.M.A. University of Kansas.
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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.
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Associate Professor of Music (choirs). D.M.A. 2000 University of Southern California.
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Associate Professor of Music (oboe). M.M. 1982 Eastman School of Music.
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Dean Emerita, College of the Arts; Professor Emerita of Music. Ph.D. 1979 University of Oregon.
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Tomas Svoboda (1970) M.M.
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Luther and Instrument Construction.
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Baroque Violin.
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Piano Technology.
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Operatic Stage Director. M.A. 1993 University of Hull.
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Professor of Theater Arts. M.A. 1987 Case Western Reserve University.

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William M. Tate (1968) M.A.
Professor of Theater Arts. M.A. 1967 University of Birmingham (U.K.).

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Marketing Faculty


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