

- **Writing**
20 semester hours (excluding WRIT 101), with at least 12 semester hours in upper division, distributed as follows: 12 semester hours in writing, four semester hours in literature, four semester hours of elective.
- **Publishing and Printing Arts**
24 semester hours. See separate listing under Publishing and Printing Arts.
- **Special Competence in Children's Literature** (not a minor)
Students completing ENGL 333 and eight semester hours from ENGL 326, 334, 335 or other approved courses (all with grades of B or higher) will be recognized for special competence in children's literature.
- **Prospective Teachers**
Students preparing to teach English in secondary schools should arrange for an advisor in both English and Education. Please also see the Department of Instructional Development and Leadership section of this catalog.

SECONDARY EDUCATION

Students preparing to teach in junior or senior high school may earn either a Bachelor of Arts in English with certification from the School of Education and Movement Studies, or a Bachelor of Arts in Education with a teaching major in English. See course requirements in Department of Instructional Development and Leadership. The English major with an emphasis in literature and the English major with an emphasis in writing may both be pursued by prospective teachers. Secondary education students must fulfill all requirements for the English major: Option 1 of the Foreign Language Requirements (two years of a foreign language at the university level, or the equivalent); at least 36 and no more than 44 credit hours in English; and all the specific requirements for the major either in literature or in writing. State certification for teachers also mandates the following requirements, which are an overlay to the major. Courses taken to satisfy the major can also be courses that satisfy the state certification requirements.

- **English literature:** One course
- **American literature:** One course
- **Comparative literature:** One course (ENGL 214, 216, 217, 232, 233, 341, 343, appropriate seminar)
- **Linguistics or structure of language:** One course (ENGL 393)
- **Writing/Composition:** One course (ENGL 328 is especially recommended)

Prospective teachers may take EDUC 529: Adolescent Literature in the Secondary Curriculum as an elective in the English major.

ELEMENTARY EDUCATION

Students preparing to teach in elementary schools following the Language Arts curriculum, must take 24 semester hours minimum in English, and are advised to follow the structure of the English major in satisfying state certification requirements. Consult your advisor in the Department of Institutional Development and Leadership.

GRADUATE PROGRAM

Master of Fine Arts in Creative Writing (Low-Residency):
See Graduate Section, page 143.

To view English (ENGL) courses, go to the PLU Directory of Approved Courses on page 177.

Environmental Studies

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The Environmental Studies Program at PLU educates to engage actively and critically the complex relationships between people and the environment, drawing upon integrated and interdisciplinary perspectives. Students graduating with a major in Environmental Studies will be able to contribute to the wider community by: (1) Using an array of theoretical and practical tools to examine the complex relationships between people and the environment; (2) Gathering, assessing, and acting on data about local, regional, and global environmental issues; (3) Critically interpreting the values and assumptions that structure human communities and their relationships with the earth's ecosystem; and (4) Integrating the methods and content of various academic perspectives to develop approaches to complex environmental challenges.

The Program, in keeping with the broad liberal arts objectives of the university, offers a major and a minor in Environmental Studies. Students have the opportunity to link environmental themes to any area of the curriculum they select in their complementary major or minor. For example, those with an interest in Biology, Chemistry or Geosciences can, therefore, tailor a program of environmental science; others can focus their attention on the environment in the social sciences, humanities, or arts. It is also possible to combine professional programs with Environmental Studies.

The Program is overseen by an interdisciplinary faculty committee. Students interested in the Environmental Studies major or minor should meet with the chair of the Environmental Studies Committee.

Faculty: Teska, *Chair*; Andrews, Auman, Behrens, Bergman, Foley, Love, McKenna, McKenney, Mergenthal, Mobus, Naasz, O'Brien, Olufs, J. Smith, St. Clair, Storfjell, Todd, Whitman.

Course Prerequisites and Substitutions

Courses listed below denoted with an asterisk (*) require completion of all necessary prerequisites.

In consultation with the Chair of the Environmental Studies Program, students majoring in a natural science discipline and who have taken a higher level CHEM course (115 or above) will be allowed to substitute another course in place of any courses listed below denoted with a pound sign (#).

MAJOR REQUIREMENTS

40 semester hours, completed with a grade of C- or higher and with a cumulative grade point average of 2.00 or higher in those courses.

ECON 313: Environmental Economics*
 ECON 315: Investigating Environmental & Economic Change in Europe*
 HIST 370: Environmental History of the US
 POLS 346: Environmental Politics and Policy

1. Multidisciplinary Courses in Environmental Studies***Four semester hours***

By examining the broad dimensions of environmental studies, these courses present various perspectives that highlight the complex relationships between people and the environment and that transcend the boundaries of any particular discipline. Students select one of the following multidisciplinary courses that anchor their understanding of environmental issues. The course should be completed prior to enrolling in either ENVT 350 or 499.

ENVT/GEOS 104: Conservation of Natural Resources
 ENVT/RELI 239: Environment and Culture
 IHON 281: Energy, Resources and Pollution
 IHON 282: Population, Hunger, and Poverty
 IHON 283: Conservation and Sustainable Development

2. Disciplinary Breadth in Environmental Studies

Each course explores the key content, ways of inquiry, conceptual framework, and modes of communication of the discipline. Students take courses from each of three areas of study that provide an in-depth exposure to environmental issues within a discipline.

A. The Environment and Science***Eight semester hours***

These courses emphasize the understanding of scientific knowledge that underpins environmental issues. The interpretation and presentation of data along with concepts of science are stressed. Students select two courses (from two different departments) from the following:

BIOL 116: Introductory Ecology
 BIOL 425: Marine Biology*
 BIOL 333: Comparative Ecology of Latin America*
 BIOL 424: Ecology*
 BIOL 427: Conservation Biology & Management*
 CHEM 104: Environmental Chemistry#
 GEOS 332: Geomorphology*
 GEOS 334: Hydrogeology*

B. The Environment and Society***Eight semester hours***

These courses focus on the understanding of the institutions within which environmental decisions are made and investigate the implementation and implications of environmental decisions. The courses also consider how human communities have shaped and been shaped by their environment and how these relationships have changed over time. Students select two courses (from two different departments) from the following:

ECON 111: Principles of Microeconomics: Global and Environmental
 ECON 311: Energy and Natural Resource Economics*

C. The Environment and Sensibility***Eight semester hours***

These courses examine the ways in which nature shapes and is shaped by human consciousness and perception. The courses critically interpret the values and assumptions that structure human communities and their relationships with the earth's ecosystems. Students select two courses (from two different departments) from the following:

ENGL 234: Environmental Literature
 PHIL 230: Philosophy, Animals and the Environment
 RELI 365: Christian Moral Issues ("Christian Ecological Ethics" only)
 RELI 393: Topics in Comparative Religions ("Native Traditions in Pacific Northwest" only)

4. Internship in Environmental Studies***Four semester hours***

An internship is required so that students have the opportunity to apply knowledge in environmental topics to the professional world and to practice their work in the local, regional or global community. Students must receive approval for their internship prior to its start from the Chair of Environmental Studies.

ENVT 495: Internship in Environmental Studies

5. Interdisciplinary Advanced Courses in Environmental Studies***Eight semester hours***

Each student will complete these two synthesis courses that integrate methods and content of various academic perspectives to develop approaches to complex environmental challenges. The courses serve to raise questions, create products, or produce explanations that cannot be addressed within the framework of a particular discipline.

ENVT 350: Environmental Methods of Investigation
 ENVT 499: Capstone: Senior Project

Additional Requirements for an Environmental Studies major

- A complementary major or minor in another discipline
- A minimum of 20 semester hours of upper division semesters in the Environmental Studies major

MINOR

24 semester hours, completed with a grade of C- or higher and with a cumulative grade point average of 2.00 or higher in those courses.

1. Multidisciplinary Courses in Environmental Studies***Four semester hours***

Students select one of the following multidisciplinary courses that anchor their understanding of environmental

issues. This course should be completed prior to enrolling in ENVT 350.

ENVT/GEOS 104: Conservation of Natural Resources
 ENVT/RELI 239: Environment and Culture
 IHON 281: Energy, Resources and Pollution
 IHON 282: Population, Hunger, and Poverty
 IHON 283: Conservation and Sustainable Development

2. The Environment and Science

Eight semester hours

Students select two courses (from two different departments) from the following that examine the scientific foundations of environmental issues:

BIOL 116: Introductory Ecology
 BIOL 425: Marine Biology*
 BIOL 333: Comparative Ecology of Latin America*
 BIOL 424: Ecology*
 BIOL 427: Conservation Biology and Management*
 CHEM 104: Environmental Chemistry#
 GEOS 332: Geomorphology*
 GEOS 334: Hydrogeology*

3. The Environment and Society

Four semester hours

Students select one course from the following that pursue the study of institutions where environmental perspectives and policies are applied and how these have changed over time:

ECON 111: Principles of Microeconomics: Global and Environmental
 ECON 311: Energy and Natural Resource Economics*
 ECON 313: Environmental Economics*
 ECON 315: Investigating Environmental & Economic Change in Europe*
 HIST 370: Environmental History of the U.S.
 POLI 346: Environmental Politics and Policy

4. The Environment and Sensibility

Four semester hours

Students select one course from the following that examine the ways in which nature shapes and is shaped by human consciousness and perception:

ENGL 234: Environmental Literature
 PHIL 230: Philosophy, Animals and the Environment
 RELI 365: Christian Moral Issues
 (“Christian Ecological Ethics” only)
 RELI 393: Topics in Comparative Religions
 (“Native Traditions in Pacific Northwest” only)

5. Environmental Methods of Investigation, ENVT 350

(Four semester hours)

ENVT 350: Environmental Methods of Investigation

To view *Environmental Studies (ENVT)* courses, go to the *PLU Directory of Approved Courses* on page 181.

French

To view curriculum and course requirements, please go to *Department of Languages & Literature, page 75*
 To view *French (FREN)* courses, go to the *PLU Directory of Approved Courses* on page 181.

Geosciences

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The geosciences are distinct from other natural sciences. The study of the earth is interdisciplinary and historical, bringing knowledge from many other fields to help solve problems. Geoscientists investigate continents, oceans, and the atmosphere, and emphasize both the processes that have changed and are changing the earth through time and the results of those processes, such as rocks and sediments. Our fast-rising human population is dependent upon the earth for food, water, shelter and energy and mineral resources.

Study in the geosciences requires creativity and the ability to integrate. Geologists observe processes and products in the field and in the laboratory, merge diverse data, develop reasoning skills that apply through geologic time and create and interpret maps. The field goes beyond pure research science, and includes applied topics like the relationships of natural events such as earthquakes and volcanoes with human societies. The Department of Geosciences recognizes that it is no longer sufficient just to have knowledge of the facts of the field; successful students must have quantitative skills and be able to communicate clearly through writing and speaking. Laboratory experiences are an integral part of all courses. Many courses involve the use of microscopes, including the department’s scanning electron microscope. Computers are used in most courses to help students understand fundamental phenomena, obtain current information, and communicate results. Field trips are included in many courses.

Pacific Lutheran University is located at the leading edge of western North America, in the Puget Lowland, between the dramatic scenery of the Olympic Mountains and the Cascade Range. Pierce County has diverse geology, which is reflected in elevations that range from sea level to more than 14,000 feet.

Geosciences graduates who elect to work after completing a PLU degree are employed by the U.S. Geological Survey, natural resource companies, governmental agencies, and private-sector geotechnical and environmental consulting firms. Graduates who combine geosciences with education are employed in primary and secondary education.

Careers in geosciences often require post-graduate degrees. Many B.S. majors have been successful at major research graduate schools.

Faculty: Foley, Chair; Benham, Davis, McKenney, Todd., Whitman.

DEGREE OFFERINGS

The **Bachelor of Science degree** is intended as a pre-professional degree, for students interested in graduate school or working in geosciences. The Bachelor of Arts degree is the minimum preparation appropriate for the field and is best

Environmental Studies (ENVT)

ENVT 104: Conservation of Natural Resources – NS, SM

Principles and problems of public and private stewardship of our resources with specific reference to the Pacific Northwest. Cross-listed with GEOS 104. (4)

ENVT 239: Environment and Culture

Study of the ways in which environmental issues are shaped by human culture and values. Major conceptions of nature, including non-western perspectives and issues in eco-justice. Critical evaluations of literature, arts, ethics, conceptual frameworks, history, and spirituality. Cross-listed with RELI 239. (4)

ENVT 350: Environmental Methods of Investigation

Study of a watershed using and integrating techniques and principles of environmental sciences, political science, economics, and ethics. Includes laboratory. **Prerequisites:** Line One completed or consent of instructor. (4)

ENVT 487: ST in Environmental Studies

Selected topics as announced by the program. Course will address interdisciplinary issues in environmental studies. (1-4)

ENVT 491: Independent Studies

Opportunity to focus on specific topics or issues in environmental studies under the supervision of a faculty member. (1-4)

ENVT 495: Internship in Environmental Studies

An internship with a private or public sector agency, organization, or company involved in environmental issues. By consent of the chair of Environmental Studies only. (4)

ENVT 499: Capstone: Senior Project – SR

An interdisciplinary research project of the student's design that incorporates materials and methods from earlier courses and has a focus reflecting the specific interest of the student. A substantial project and a public presentation of the results are required. **Prerequisite:** ENVT 350. (4)

French (FREN)

FREN 101, 102: Elementary French

Essentials of pronunciation, intonation, and structure; basic skills in listening, speaking, reading, and writing. Lab attendance required. (4, 4)

FREN 201, 202: Intermediate French – C

Review of basic grammar, development of vocabulary and emphasis on spontaneous, oral expression. Reading selections which reflect the cultural heritage and society of the Francophone world. Lab attendance required. (4, 4)

FREN 241: French Language and Caribbean Culture in Martinique

Offered on the campus of the Université des Antilles et de la Guyane in Martinique, includes daily intensive language study, a home stay, excursions and activities related to the history and culture of the French West Indies, meetings with writers and political figures, and a fieldwork project. May be counted towards French major or minor. **Prerequisite:** FREN 201 or permission of instructor. (4)

FREN 301, 302: Composition and Conversation – C

Advanced grammar, stylistics, composition, and conversation within the historical context of Francophone culture, history, and literature. **Prerequisite:** FREN 202. (4, 4)

FREN 321: Civilization and Culture – C

Development of French society from early times to the present, as portrayed in art, music, politics, and literature, within their socio-historical context. **Prerequisite:** FREN 202. (4)

FREN 341: French Language and Caribbean Culture in Martinique – C

See FREN 241 for description. May be counted towards French major or minor. **Prerequisite:** FREN 301 or permission of instructor. (4)

FREN 421, 422: Masterpieces of French Literature – C, LT

Social and aesthetic importance of works representative of major periods from the Middle Ages through the nineteenth century. May include Christine de Pizan, Rabelais, Montaigne, Molière, Pascal, Voltaire, Rousseau, Hugo, and Baudelaire. **Prerequisite:** FREN 302. (4, 4)

FREN 431, 432: 20th-Century French Literature – C, LT

Social and aesthetic importance of selected 20th-century writers from France and other francophone countries. May include Gide, Camus, Sartre, Beckett, Aimé Césaire, Miriam Bâ, Assia Dejar. **Prerequisite:** FREN 302. (4, 4)

FREN 499: Capstone: Senior Project – SR (4)

