

ENVIRONMENTAL STUDIES, B.A.

Environmental studies at Saint Louis University focuses on relationships between the natural environment and social, economic, political, legal and humanistic aspects of society.

As global population and consumption rises, understanding the interplay between environmental and social systems has become an increasingly important component of decision-making and planning. The program helps prepare students for careers that emphasize a dual awareness of scientific and social perspectives and their relationship to the natural environment.

Curriculum Overview

The environmental studies curriculum at Saint Louis University is built upon a breadth-plus-depth model. All students entering the environmental studies program are required to complete a core set of preparatory science and skill development courses that provide a broad introduction to the environmental sciences. Students then choose a specialized concentration that provides more advanced instruction in their areas of interest to help prepare them for careers after graduation. The program has been developed through collaboration with many other departments on campus, and it provides considerable flexibility in course selection within the tracks. For most students, the program fuses an understanding of environmental science with the approximate equivalent of a self-designed minor in their specific area of interest.

Environmental studies students take a minimum of 38 credits of math and science core classes. Students then choose from one of the following concentrations:

- Philosophy, religion and ethics
- Economics, politics and public policy

Fieldwork and Research Opportunities

Weekend field trips, canoe trips and social events are scheduled throughout the year. One perk associated with this major is the opportunity to join other faculty and students on annual, weeklong field trips across the country. Visit environmentally important sites and get to know the faculty, other students and alumni who join the trips.

Undergraduate students in the environmental studies program have the option to pursue internship opportunities through the department of Earth and atmospheric sciences or in collaboration with other departments on campus. Students also have the option to participate in a capstone project designed to provide a real-world perspective as part of their undergraduate training.

Careers

The environmental studies program prepares students for careers in business, law, government or wherever knowledge of scientific and social perspectives on the environment is important. Students also have the opportunity to prepare for more advanced degrees in a wide range of fields, including law, economics and public policy.

Admission Requirements

Freshman

All applications are thoroughly reviewed with the highest degree of individual care and consideration to all credentials that are submitted. Solid academic performance in college preparatory course work is a primary concern in reviewing a freshman applicant's file. College admission test scores (ACT or SAT) are used as an additional indicator of the student's ability to meet the academic rigors of Saint Louis University and are used as qualifiers for certain University scholarship programs. To be considered for admission to any Saint Louis University undergraduate program, the applicant must be graduating from an accredited high school or have an acceptable score on the General Education Development (GED) test.

Transfer

Applicants must be a graduate of an accredited high school or have an acceptable score on the GED. An official high school transcript and official test scores are required only of those students who have attempted fewer than 24 transferable semester credits (or 30 quarter credits) of college credit. Those having completed 24 or more of college credit need only submit a transcript from previously attended college(s). In reviewing a transfer applicant's file, the office of admission holistically examines the student's academic performance in college-level coursework as an indicator of the student's ability to meet the academic rigors of Saint Louis University.

International Applicants

All admission policies and requirements for domestic students apply to international students along with the following:

- Demonstrate English Language Proficiency (<http://catalog.slu.edu/academic-policies/office-admission/undergraduate/english-language-proficiency>)
- Proof of financial support must include:
 - A letter of financial support from the person(s) or sponsoring agency funding the time at Saint Louis University
 - A letter from the sponsor's bank verifying that the funds are available and will be so for the duration of study at the University
- Academic records, in English translation, of students who have undertaken postsecondary studies outside the United States must include the courses taken and/or lectures attended, practical laboratory work, the maximum and minimum grades attainable, the grades earned or the results of all end-of-term examinations, and any honors or degrees received. WES and ECE transcripts are accepted.

Scholarships and Financial Aid

There are two principal ways to help finance a Saint Louis University education:

- Scholarships: awarded based on academic achievement, service, leadership and financial need.
- Financial Aid: provided in the form of grants and loans, some of which require repayment.

For priority consideration for merit-based scholarships, applicants should apply for admission by Dec. 1 and complete a Free Application for Federal Student Aid (FAFSA) by March 1.

For information on other scholarships and financial aid, visit the student financial services office online at <http://finaid.slu.edu>.

Learning Outcomes

1. Graduates will know the founding principles in their field of study, as well as the facts and content appropriate to the field.
2. Graduates will be able to use their knowledge to reason about issues in their discipline.
3. Graduates will be able to solve quantitative problems in their discipline.

Requirements

Code	Title	Credits
Core Requirement		
College core requirements (p. 3)		57-66
For additional information about core courses (http://catalog.slu.edu/colleges-schools/arts-sciences/#policiestext)		
Required Courses		
<i>Physical Sciences</i>		
EAS 1010 & EAS 1020	Earth Systems I-The Solid Earth and Earth's Environment I Lab	4
EAS 1030 & EAS 1040	Earth's Dynamic Environment II and Earth's Environment II Lab	4
<i>Chemistry Elective</i>		
Select one of the following:		3-4
CHEM 1000	Chemistry and the Environment	
CHEM 1xxx	Any chemistry course	
<i>Life Sciences</i>		
Select two of the following:		6-8
BIOL 1240 & BIOL 1245	Principles of Biology I and Principles of Biology I Laboratory	
BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	
BIOL 1140	Our Living Environment	
BIOL 1200	Ecological Issues and Society	
BIOL 1340	Diversity of Life	
BIOL 4400	Applied Ecology	
<i>Integrated Science Courses</i>		
EAS 2600	Environmental Science Seminar Series	1
EAS 3100	Environmental Issues	3
<i>Mathematical/Statistics Requirement</i>		
Select one of the following:		3-4
MATH 1200	College Algebra	
MATH 1400	Pre-Calculus	
MATH 1510	Calculus I	
<i>Mathematical/Statistics Elective</i>		
Select one of the following:		3-4
OPM 2070	Introduction to Business Statistics	
MATH 1510	Calculus I	
MATH 1520	Calculus II	
PSY 2050	Foundations of Research Methods and Statistics	
STAT 1300	Elementary Statistics with Computers	
<i>Skill Development</i>		
CMM 1200	Public Speaking	3
GIS 4010	Introduction to GIS	3
<i>Senior Experience</i>		

EAS 4910 Internship 3

Environmental Studies Concentration

First Tier Courses

One course from each of the concentrations First Tier courses

Students who choose to select two major concentrations may apply a maximum of 12 credits from an individual department towards completion of both concentrations. One Second Tier course may be applied simultaneously towards the completion requirements of both major concentrations.

Advocacy and Discourse (p. 2)	3
Economics, Politics, and Public Policy (p. 2)	3
Natural Sciences (p. 3)	3
Philosophy, Religion, and Ethics (p. 3)	3
Society and the Environment through Space and Time (p. 3)	3

Second Tier Courses

Any Second Tier courses from a student's primary concentration. 9-12
Additionally, any First Tier course in concentrations other than the primary concentration can be used to satisfy this requirement.

General Electives 3-0

Total Credits 120-134

College Core Requirements

Many courses included in the environmental studies program satisfy the core requirements of the College of Arts and Sciences. Depending on the concentration of study and individual courses chosen by a student, the number of core requirements that need to be satisfied after completing the requirements of the major might vary.

Advocacy and Discourse Concentration

Code	Title	Credits
First Tier Courses		
CMM 2100	Journalism: News Writing	3
CMM 3050	Argumentation and Debate	3
CMM 3060	Political Communication	3
Second Tier Courses		
CMM 3050	Argumentation and Debate	3
CMM 3200	Organizational Communication	3
CMM 3060	Political Communication	3
CMM 3600	Public Relations Principles and Practices	3
CMM 4430	Culture, Technology and Communication	3
CMM 4640	Public Relations Case Studies	3
CMM 4650	International Public Relations	3
ENGL 3885	Writing Personal Narratives	3
ENGL 3580	Literature of the Natural World	3
ENGL 3590	Nature and Literature	3
PHIL 3450	Disaster Narratives	3

Economics, Politics, and Public Policy Concentration

Code	Title	Credits
First Tier Courses		
ECON 1900	Principles of Economics ¹	3
POLS 1100	Introduction to American Government	3
PLS 3500	Introduction to Environmental Law	3
Second Tier Courses		

CMM 3060	Political Communication	3
CMM 4650	International Public Relations	3
ECON 3140	Intermediate Microeconomics	3
POLS 2600	Introduction to International Political Economy	3
POLS 3310	Administrative Law	3
POLS 3570	Third World Development	3
POLS 3600	Problems of Globalization	3
POLS 3640	International Law	3
POLS 4730	Seminar: Contemporary Political Ideologies	3

¹ Required when Economics, Politics, and Public Policy is the primary concentration.

Natural Sciences Concentration

Code	Title	Credits
First Tier Courses		
EAS 1600	Sustainable Energy	3
EAS 3250	Global Change ¹	3
BIOL 1140	Our Living Environment	3
BIOL 1200	Ecological Issues and Society	3
BIOL 1340	Diversity of Life	3
BIOL 3450	Economic Botany	3
BIOL 1640	Microbes, History and Society	3
BIOL 1700	Plants and Cultural Diversity	3

Second Tier Courses

Any BIOL, CHEM, and EAS courses included in the Environmental Science program concentrations are accepted in this concentration. ²

¹ Required when Natural Sciences is the primary concentration.
² Note that many upper-division science courses have BIOL 1240 Principles of Biology I (3 cr) and BIOL 1260 Principles of Biology II (3 cr), CHEM 1110 General Chemistry 1 (0,3 cr) to CHEM 1125 General Chemistry 2 Laboratory (1 cr), and/or MATH 1510 Calculus I (4 cr) as pre-requisites.

Philosophy, Religion, and Ethics Concentration

Code	Title	Credits
First Tier Courses		
PHIL 3420	Environmental and Ecological Ethics	3
THEO 2820	Religion and Science ¹	3
THEO 3510	Faith and Politics	3
THEO 3525	Green Discipleship: Theology & Ecology	3
Second Tier Courses		
ANTH 2210	Biological Anthropology	3
BIOL 2560	Evolution & Christian Theology	3
PHIL 4150	Philosophy of Science Survey	3
ANTH 2200	Cultural Anthropology	3
THEO 3510	Faith and Politics	3
THEO 4930	Special Topics	3

¹ Required when Philosophy, Religion, and Ethics is the primary concentration.

Society and the Environment through Space and Time Concentration

Code	Title	Credits
First Tier Courses		
SOC 1180	World Geography ¹	3
ANTH 2200	Cultural Anthropology	3
ANTH 3270	Climate Change & Environmental Futures	3
HIST 3660	North American Environmental History	3
Second Tier Courses		
EAS 3250	Global Change	3
GIS 4020	Intermediate GIS	3
POLS 3570	Third World Development	3
POLS 3600	Problems of Globalization	3
POLS 3640	International Law	3
POLS 3330	Metropolitan Environment	3
POLS 4620	Global Diplomacy	3
POLS 4730	Seminar: Contemporary Political Ideologies	3
ANTH 2210	Biological Anthropology	3
SOC 4640	Demography: Measuring and Modeling Population Process	3

¹ Required when Society and the Environment through Space and Time is the primary concentration.

Non-Course Requirements

Competency exam in computer use will be administered once each year and should preferably be completed during a student's freshman or sophomore year.

Continuation Standards

Students must have a minimum of a 2.00 GPA in their major courses (EAS) and required related credits (biology, chemistry, mathematics and computer sciences, physics, etc.) by the conclusion of their freshman year. Students that fall below a 2.00 GPA will be placed on probation. If a student fails to obtain at least a 2.0 GPA in their major courses and required related credits by the conclusion of their sophomore year they will not be allowed to continue in the program.

Bachelor of Arts Core Curriculum Requirements

Code	Title	Credits
Core Components and Credits		
Foundations of Discourse (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/foundations-discourse)		3
Diversity in the U.S. (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/cultural-diversity)		3
Global Citizenship (http://catalog.slu.edu/colleges-schools/arts-sciences/bs-core/global-citizenship)		3
Foreign Language (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/foreign-language)		0-9
Fine Arts (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/fine-arts)		3
Literature (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/literature)		6
Mathematics (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/mathematics)		3

Natural Science (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/sciences)	6
Philosophy (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/philosophy)	9
Social Science (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/social-science)	6
Theology (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/theology)	9
World History (http://catalog.slu.edu/colleges-schools/arts-sciences/ba-core/world-history)	6
Total Credits	57-66

Graduation Requirements

- Complete a minimum of 120 credits (excluding pre-college level courses [numbered below 1000]).
- Complete either the College of Arts and Sciences Bachelor of Arts or Bachelor of Science Core Curriculum Requirements
- Complete Major Requirements: minimum 30 credits required.
- Complete remaining credits with a second major, minor, certificate, and/or elective credits to reach the minimum of 120 credits required for graduation.
- Courses listed under the intensive English program do not count toward graduation requirements. EAP 1500 College Composition for International Students (3 cr), EAP 1900 Rhetoric & Research Strategies (3 cr) and EAP 2850 Introduction to Literature for International Students (3 cr) count toward graduation requirements as equivalents to Department of English courses. In addition to those courses, six credits from EAP/MLNG courses at the 1000 level or higher may count toward graduation requirements
- Achieve at least a 2.00 cumulative grade point average, a 2.00 grade point average in the major(s) and a 2.00 grade point average in the minor/certificate, or related elective credits.
- Complete Dept/Program specific academic and performance requirements.
- Complete at least 50% of the coursework for the major and 75% for the minor/certificate through Saint Louis University or an approved study abroad program.
- Complete 30 of the final 36 credits through Saint Louis University or an approved study abroad program.
- Complete an online degree application by the required University deadline.

Roadmap

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

Course	Title	Credits
Year One		
Fall		
EAS 1010 & EAS 1020	Earth Systems I-The Solid Earth and Earth's Environment I Lab	4
Math Course	College algebra, pre-calculus, or calculus	3
A&S Core		3
A&S Core		3
UNIV 1010	Univ 101: Enhancing 1st yr Suc	1
		Credits
		14
Spring		
EAS 1030 & EAS 1040	Earth's Dynamic Environment II and Earth's Environment II Lab	4
Biology Course		3
A&S Core		3
A&S Core		3
		Credits
		13
Year Two		
Fall		
Chemistry course		3
Math course	A statistics class or Calculus	3
Course in chosen Concentration		3
EAS 2600	Environmental Science Seminar Series	1
A&S Core		3
A&S Core		3
		Credits
		16
Spring		
Biology course		3
CMM 1200 or EAS 2450	Public Speaking or Communicating in Science	3
Course in chosen Concentration		3
A&S Core		3
A&S Core		3
		Credits
		15
Year Three		
Fall		
EAS 3100	Environmental Issues	3
Course in chosen Concentration		3
EAS 2600	Environmental Science Seminar Series	1
A&S Core		3
A&S Core		3
A&S Core		3
		Credits
		16
Spring		
EAS 2600	Environmental Science Seminar Series	1
Course in chosen Concentration		3
Course in chosen Concentration		3
A&S Core		3
A&S Core		3
Elective		3
		Credits
		16

Summer		
EAS 4910	Internship	3
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	Credits	3
Year Four		
Fall		
GIS 4010	Introduction to GIS	3
Course in chosen Concentration		3
Course in chosen Concentration		3
EAS 2600	Environmental Science Seminar Series	1
A&S Core		3
A&S Core		3
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	Credits	16
Spring		
EAS 2600	Environmental Science Seminar Series	1
Course in chosen Concentration		3
Course in chosen Concentration		3
A&S Core		3
A&S Core		3
Elective		3
<hr/>		
	Credits	16
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	Total Credits	125