

Environmental Science

Environmental science is the application of scientific information in order to solve conflicts resulting from humans' use of our planet's resources. This requires an understanding of the sustainability of natural systems and resources, the interrelationships between these systems, as well as the human impact on the environment.

Environmental science is thus an inherently interdisciplinary field, using and combining information from such varied disciplines as:

- biology
- chemistry
- geology
- economics
- political science
- law
- ethics

California Lutheran University's B.S. degree in environmental science is designed to provide the student with the tools to critically examine environmental issues from a variety of perspectives.

Beyond the required foundational science courses, the program provides a broad range of science and humanities courses to select from, allowing students to tailor the program to their interests. The curriculum emphasizes experiential learning, providing the student with opportunities to actively engage in research.

Many students who obtain the B.S. degree in environmental science are planning careers in environmental protection and management, risk assessment, environmental law or education. The program also prepares students to pursue graduate studies in various environmental fields.

Bachelor of Science in Environmental Science

45 credits minimum, 18 credits upper division.

GEOL 152/152L	Introduction to Environmental Science and Introduction to Environmental Science Lab	4
or BIOL 325/325L	Environmental Ecology	
Select one of the following:		4-5
BIOL 111/111L	Principles of Biology and Principles of Biology Lab	
BIOL 120/123L	Introduction to Ecology and Populations and Introduction to Biological Experimentation I	
Select one of the following:		4-5
CHEM 111/111L	Chemistry and the Environment and Chemistry and the Environment Lab	
CHEM 151/151L	General Chemistry and General Chemistry Lab	
GEOL 111/111L	Physical Geology and Physical Geology Lab	4
MATH 231	Biostatistics	4
ENVS 485	Environmental Science Capstone	2
Select three of the following:		12
BIOL 311/BIOL 311L	Evolution and	
BIOL 325/325L	Environmental Ecology and Environmental Ecology Lab (If not used earlier)	
BIOL 345/345L	Marine Biology and Marine Biology Lab	
BIOL 352/352L	Oceanography and Oceanography Lab	
BIOL 452/452L	California Plant Communities and California Plant Communities Lab	

CHEM 301/301L	Environmental Chemistry and Environmental Chemistry Lab	
GEOL 331/331L	Invertebrate Paleontology and Invertebrate Paleontology Lab	
GEOL 332/332L	Stratigraphy and Sedimentation and Stratigraphy and Sedimentation Lab	
GEOL 395/395L	Water Resources and Laboratory and Field Studies in Water Resources	
GEOL 405/405L	Geophysics and Geophysics Lab	
Select two of the following:		8
REL 352	Environmental Ethics	
ECON 414	Economics of the Environment	
ENGL 216	Environmental Literature	
POLS 414	Environmental Law and Policy	
Additional Science course ¹		4
Total Hours		46-48

¹ From Biology, Chemistry, Geology, Physics at the 200 level or above or two field experience courses (see adviser for list of approved choices).

Courses

ENVS 482. Selected Topics. (1-4).

ENVS 485. Environmental Science Capstone. (2).

This course introduces students to the professional skills and practices required in the environmental field. Includes introduction to GIS (Geographic Information Systems), literature searches, written and oral presentation of work. Prerequisite: senior standing.

ENVS 490. Independent Study. (1-4).

ENVS 492. Internship. (1-4).