PACIFIC LUTHERAN UNIVERSITY

Earth and Environmental Science - Bachelor of Science

Earth Science

	Fall Term	J-term	Spring Term	Comments
First Year	FYEP 101 GEN-ED Mathematics Course* FTWL 100 (1 hr) PLUS 100 (1 hr)	GEN-ED	Choose ONE: ECON 101, ESCI 104, ESCI 109, RELI 239 ESCI & ENVT** FYEP 102 GEN-ED	32 credits per year are necessary to graduate in 4 years (which requires a minimum of 128 semester hours).
Credits:	14	4	16	Credits for year: 34
Sophomore Year	ESCI & ENVT** ESCI & ENVT** GEN-ED FTWL Activity Elective#		ESCI & ENVT** ESCI & ENVT** ESCI & ENVT** Elective#	*choose from MATH 145, MATH 151, STAT 231, STAT 232 MATH/STAT 242, or SOCI 301
Credits:	17		16	Credits for year: 33
Junior Year	ESCI & ENVT** ESCI & ENVT** GEN-ED Elective#		ESCI & ENVT** ENVT 350*** GEN-ED ESCI 401 (1) Elective#	**choose from list below ***ENVT 350 or approved field experience
Credits:	16		17	Credit for year: 33
Senior Year	ENVT 499A (1 cr) Elective# Elective# Graduation Hr Req		ENVT 499B (3 cr) GEN-ED Graduation Hr Req Graduation Hr Req	#choose from list below
Credits:	13		15	Credit for year: 28
Total Credits Required by Degree:				**Total Credits: 128**

Earth Science & Environmental Studies Courses (ESCI & ENVT)**	
Environment & Science (28 hours)	**Environment & Society (select 1)**
Choose **ONE** of the following mathematical courses: • MATH 145: Statistics for Biologists (4) • MATH 151: Calculus I (4) • STAT 231: Introductory Statistics (4) • STAT 232: Introductory Statistics for Psychology Majors, Pre-req: PSYC 101 (4) • MATH/STAT 242: Introduction to Mathematical Statistics, Pre-req: MATH 151 (4) • SOCI 301: Quantitative Research Methods, Pre-req: SOCI 101 or CRIM 102 (4) Choose **24** hours from the following: • BIOL 225: Molecules, Cells, and Organisms (4) • BIOL 226: Genes, Evolution, Diversity, and Ecology (4) • CHEM 115: General Chemistry I (4) • CHEM 116: General Chemistry II (4) • ONE course from: ESCI 102, 103, 104, 106, 107, or 109 (4) • **ESCI 201: Geologic Principles (4)** • PHYS 125/135 (5) or PHYS 153/163 (5) • PHYS 126/136 (5) or PHYS 154/164 (5) • DATA 133: Introduction to Data Science I (4) • DATA 233: Introduction to Data Science II (4) **Earth Science Concentration must complete ESCI 201**	• ANTH 368: Edible Landscapes, The Foraging Spectrum • ECON 215: Investigating Environmental & Economic Change in Europe • ECON 313: Environmental Economics • HIST 370: Environmental History of the US • HIST 351: History of the Pacific Northwest • POLS 346: Environmental Politics and Policy
Environment & Sensibility (select 1)	**Environmental Justice (select 1)**

• ENGL 234: Environmental Literature
• ENGL 394: Studies in Literature and the Environment
• PHIL 226: Environmental Ethics
• PHIL 327: Environmental Philosophy
• RELI 236: Native American Religious Traditions
• RELI 257: Christian Theology
  ○ (when topic is “Green Theology” only)
	• NAIS 244: Environmental Justice and Indigenous Peoples
	• RELI 365: Christian Moral Issues
	  ○ (when topic is “Climate Justice” only)
	• RELI 397: Indigenous Religions and Cultures of the Pacific Northwest

*Courses may require prerequisites that are not included in the major requirements. You will have to take additional courses (prerequisites) if you wish to take these classes.	
24 Hours of Electives from the following: (at least 16 hours must be from ESCI)#	
• BIOL 352: Comparative Anatomy (4) • BIOL 354: Natural History of Vertebrates (4) • CHEM 320: Analytical Chemistry (4) • CHEM 331/333: Organic Chemistry I (5) • CHEM 332/334 or 336: Organic Chemistry II (5) • ESCI 325: Structural Geology (4) • ESCI 327: Stratigraphy and Sedimentation (4) • ESCI 331: Maps: Computer-aided Mapping and Analysis (4) • ESCI 332: Geomorphology (4) • ESCI 336: Geochemistry (4) • ESCI 342: Climate and Earth System (4) • ESCI 345: Tectonic Petrology (4) • MATH/STAT 348: Statistical Computing and Consulting (4) • MATH/STAT 442: Statistical Modeling (4) • NSCI 350: STEM Education Partnership (4)	

This advising guide is for advising purposes only and does not denote a contract with the student or Pacific Lutheran University. Many programs have specific deadlines for application or declaration; contact the department or program chair for information. This information is accurate as of January 5th, 2026; please check with your program chair for updates to the program. The university reserves the right to make necessary changes at its discretion.

General education course requirements are listed assuming that major classes will not count toward the general education course requirements. If a course counts towards a major and a general education requirement (e.g. PSYC 101 if the student is a psychology major), students will still need to take enough courses (shown here as Graduation Hr Req) to reach the 128 credits needed to graduate.

***This degree requires 3 additional courses to fulfill the graduation hour requirement of 128. Students should consider using these 3 courses to add a minor or another major. Minors range from 4-7 courses and some majors require as few as 3 courses to complete. Speak with a Center for Student Success advisor to map out what would fit best in your degree.

Departmental Requirements

- Major in Earth and Environmental Science 76-77 semester hours in Foundation courses and subsequent requirements associated with selection of a concentration in either Earth Science or Environmental Science, completed with a grade of C- or higher and with a cumulative GPA of 2.00 or higher in those courses.

General Degree Requirements

- A minimum of 128 semester hours must be completed with a GPA of 2.00 or higher.
- In addition to the requirements of this major, students must complete all other requirements of the University as listed in the catalog.
- At least 32 semester hours must be completed in residence at PLU.
- At least 8 semester hours for the major must be taken in residence at PLU.
- All students must complete a minimum of 40 semester hours of Upper-Division work (300-400 level) which includes courses in the major.
- Students should earn 32 semester hours per year to stay on track to graduate in 4-years (which requires a minimum of 128 semester hours).
- UNIVERSITY CATALOG