ENVIRONMENTAL SCIENCE: ENVIRONMENTAL HEALTH (BS)

Environmental degradation significantly impacts human health, damaging people's health through pesticide exposure, poor air quality, water contamination, and extreme heat events linked to climate change. Our environmental health program prepares students to address these interconnected issues and improve the well-being of people and the planet.

CURRICULUM

Students studying Environmental Health develop a solid foundation in environmental science, environmental economics and policy, and the societal issues associated with environmental degradation.

Code Core Curriculum	Title	Hours
ENVS 137	Foundations of Environmental Science I	3
BIOL 101	General Biology I	3
BIOL 111	General Biology I Lab	1
CHEM 160	Chemical Structure and Properties	3
CHEM 161	Chemical Structure and Properties Laboratory	1
BIOL 102	General Biology II	3
BIOL 112	General Biology II Lab	1
CHEM 180	Chemical Reactivity I	3
CHEM 181	Chemical Reactivity I Lab	1
ENVS 200	Environmental Careers and Professional Skills	1
ENVS 203	Environmental Statistics	3
ENVS 274	Chemistry of the Environment	3
ENVS 275	Chemistry of the Environment Lab	1
ENVS 280	Principles of Ecology	3
ENVS 286S	Principles of Ecology Lab	1
PLSC 392	Environmental Politics	3
ENVS 300	Introduction to Public Health	3
ENVS 301	Environmental Health	3
ENVS 303	Introduction to Epidemiology	3
Justice and Ethic	s Choice	
Select one of the	following:	3
ENVS 284	Environmental Justice	
PHIL 287	Environmental Ethics	
THEO 204	Religious Ethics and the Ecological Crisis	
Economics Choic	e	
ENVS 335	Ecological Economics	3
or ECON 328	Environmental Economics	
Engaged Learning	g Choice	
Select one of the	following:	3
ENVS 226	Science & Conservation of Freshwater Ecosystem	าร
ENVS 267	Bird Conservation and Ecology	
ENVS 273	Energy and The Environment	
ENVS 283	Environmental Sustainability	
ENVS 340	Natural History of Belize	

Capstone			
Select one	of the	following:	3
ENVS 3		Integrative Seminar	
		5	
ENVS 3	891C	Independent Environmental Research (Capstone)	
ENVS 3	895C	Environmental Internship (Capstone)	
Electives			15
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See desig	lective categories below		
Total Hou	rs		70
H1 41			

Electives

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Co	ode	Title	Hours			
En	vironmental He	alth and Society				
Se	Select one of the following: 3					
	ENVS 204	Gender, Health & Environment				
	ENVS 279 / HIST 279E	Climate and History				
	ENVS 284	Environmental Justice				
	ENVS 297 / HIST 297E	North American Environmental History				
	ENVS 298	Special Topics (with SES approval)				
	ENVS 310	Introduction to Environmental Law & Policy				
	ENVS 311	Natural Resources and Land Use Law & Policy				
	ENVS 312	Water Law & Policy				
	ENVS 313	Energy Law & Policy				
	ENVS 335	Ecological Economics				
	ENVS 338	Climate Change and Human Health				
	ENVS 340	Natural History of Belize				
	ENVS 350A	Solutions to Environmental Problems: Water				
	ENVS 350B	Solutions to Environmental Problems: Biogas				
	ENVS 350C	Solutions to Environmental Problems: Climate Action				
	ENVS 350F	Solutions to Environmental Problems: Food Systems				
	ENVS 363	Sustainable Business Management				
	ENVS 383	Human Dimensions of Conservation				
	ENVS 389	Ecological Risk Assessment				
	ENVS 391	Environmental Research (with SES approval)				
	ENVS 395	Environmental Internship (with SES approval)				
	ENVS 398	Special Topics (with SES approval)				
	ENVS 399	Directed Readings (with SES approval)				
	COMM 101	Public Speaking & Critical Thinking				
	COMM 260	Environmental Journalism				
	COMM 277	Organizational Communication				

COMM	306	Environmental Advocacy	
COMM		Digital Sustainability	
ECON:		Environmental Economics	
ENGL 2		Nature in Literature	
MGMT		Managing People and Organizations	
PHIL 2		Environmental Ethics	
PLSC 3		Global Environmental Politics	
PSYC 2		Environmental Psychology	
SOCL 2	226	Science, Technology, & Society	
SOCL 2	252	Global Inequalities	
SOCL 2	272	Environmental Sociology	
SOCL 2	276	The Sociology and Politics of Food	
SOCL 2	278	Global Health	
THEO 2	204	Religious Ethics and the Ecological Crisis	
THEO :	344	Theology and Ecology	
Environm	ental Sc	ience Electives	
Select for	ur of the	following:	12
ENVS 2	204	Gender, Health & Environment	
ENVS 2	207	Plants and Civilization	
ENVS 2	218	Biodiversity & Biogeography	
ENVS 2	223	Soil Ecology	
ENVS 2	224	Climate & Climate Change	
ENVS 2	226	Science & Conservation of Freshwater Ecosystems	
ENVS 2	283	Environmental Sustainability	
ENVS 2	298	Special Topics (with SES approval)	
ENVS 3	322	Invasive Species	
ENVS 3	323	Environmental Microbiology	
ENVS 3	325	Sustainable Agriculture	
ENVS 3	326	Agroecosystems	
ENVS 3	327	Food Systems Analysis	
ENVS 3	330	Restoration Ecology	
ENVS 3	338	Climate Change and Human Health	
ENVS 3	350A	Solutions to Environmental Problems: Water	
ENVS 3	350B	Solutions to Environmental Problems: Biogas	
ENVS :	350C	Solutions to Environmental Problems: Climate Action	
ENVS	350F	Solutions to Environmental Problems: Food Systems	
ENVS 3	380	Introduction to Geographic Information Systems	
ENVS 3	381	Advanced GIS Applications	
ENVS 3	382	Remote Sensing	
ENVS 3	385	Introduction to Global Health	
ENVS 3	387	Principles of Ecotoxicology	
ENVS 3	388	Applied Environmental Statistics	
ENVS 3	389	Ecological Risk Assessment	
ENVS 3	391	Environmental Research (with SES approval)	
ENVS 3	395	Environmental Internship (with SES approval)	
ENVS 3	398	Special Topics (with SES approval)	
ENVS 3	399	Directed Readings (with SES approval)	
ANTH	104	The Human Ecological Footprint	
ANTH	303	People and Conservation	

BIOL, CHEM, PHYS 300-level courses (with SES approval)

Total Hours 15

School of Environmental Sustainability Graduation Requirements

All SES students are required to complete a foreign language requirement and a writing intensive requirement. The SES language requirement can be fulfilled by 1) earning college credit at the 102-level or above; or 2) demonstrating proficiency via the SES foreign language proficiency examination. The SES writing intensive requirement is fulfilled by successfully completing two Loyola WI courses (max of one per semester). Writing intensive courses have a "W" in the section number.

Additional Undergraduate Graduation Requirements

All Undergraduate students are required to complete the University Core, at least one Engaged Learning course, and UNIV 101. SCPS students are not required to take UNIV 101. Nursing students in the Accelerated BSN program are not required to take core or UNIV 101. You can find more information in the University Requirements (https://catalog.luc.edu/undergraduate/university-requirements/) area.

LEARNING OUTCOMES

- Examine the sources of environmental degradation and their impacts on health
- Apply the tools of public health to characterize the impacts on community health using a planetary health perspective.
- Integrate environmental regulatory policies to evaluate the health impacts at local and global scales.
- Incorporate critical public health and environmental health justice perspectives into environmental and human dimensions.

SES Shared Learning Outcomes

All SES majors share the following Program Learning Objectives, in addition to their unique major-specific Program Learning Objectives:

- Articulate the foundational principles of natural and social sciences and humanities essential to solving environmental problems.
- 2. Critically evaluate the accuracy and credibility of information relating to environmental topics.
- Employ knowledge and skills to design and implement solutions that contribute to a just and sustainable world.
- Exemplify the values of environmental and social justice through actions to care for our common home and one another.