# ENVIRONMENTAL SCIENCE: CONSERVATION AND RESTORATION ECOLOGY (BS)

Biodiversity at local, regional, and global scales currently faces unprecedented threats from pressures including climate change, invasive species, and habitat alteration. Our conservation and restoration program prepares tomorrow's leaders to develop and implement effective strategies to protect and restore natural ecosystems. Students explore ecological principles, how humans interact with and impact ecosystems, and methods of repairing environmental damage.

### CURRICULUM

Students studying Conservation and Restoration develop a solid foundation in environmental science, environmental economics and policy, and the ways that society can effectively enhance biodiversity.

Code	Title	Hours		
Core Curriculum				
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 218	Biodiversity & Biogeography	3		
ENVS 320	Conservation Biology	3		
ENVS 321	Conservation Biology Lab	1		
ENVS 330	Restoration Ecology	3		
ENVS 331	Restoration Ecology Lab	1		
ENVS 383	Human Dimensions of Conservation	3		
Justice and Ethic	es 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:				
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	
ENVS 345	Conservation and Sustainability of Neotropical Ecosystems	
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 391	Environmental Research	
ENVS 395	Environmental Internship	
Capstone Choice		
Select one of the	following:	3
ENVS 390	Integrative Seminar	
ENVS 391C	Independent Environmental Research (Capstone)	
ENVS 395C	Environmental Internship (Capstone)	
Electives (p. 1)		9
. ,	d elective categories below	
Total Hours		69
Electives		
Code	Title	Hours
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Society, Ethics, an Select one of the		3
COMM 260	Environmental Journalism	5
	Conder Health & Environment	
ENVS 204	Gender, Health & Environment	
ENVS 279 / HIST 279E	Climate and History	
ENVS 279 / HIST 279E ENVS 284	Climate and History Environmental Justice	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E	Climate and History Environmental Justice North American Environmental History	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298	Climate and History Environmental Justice	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E	Climate and History Environmental Justice North American Environmental History	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health Solutions to Environmental Problems: Water	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298 ENVS 338	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298 ENVS 338 ENVS 350A	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health Solutions to Environmental Problems: Water	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298 ENVS 338 ENVS 350A ENVS 350B	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health Solutions to Environmental Problems: Water Solutions to Environmental Problems: Biogas Solutions to Environmental Problems: Climate	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298 ENVS 298 ENVS 338 ENVS 350A ENVS 350B ENVS 350C	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health Solutions to Environmental Problems: Water Solutions to Environmental Problems: Climate Action Solutions to Environmental Problems: Food	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298 ENVS 338 ENVS 350A ENVS 350B ENVS 350C ENVS 350F	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health Colutions to Environmental Problems: Water Solutions to Environmental Problems: Climate Solutions to Environmental Problems: Climate Climate Change and Problems: Food Solutions to Environmental Problems: Food Systems	
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ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298 ENVS 338 ENVS 350A ENVS 350A ENVS 350C ENVS 350F ENVS 383 ENVS 383 ENVS 391 ENVS 395 ENVS 398	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health Solutions to Environmental Problems: Water Solutions to Environmental Problems: Climate Solutions to Environmental Problems: Climate Solutions to Environmental Problems: Food Systems Human Dimensions of Conservation Environmental Research (with SES approval) Environmental Internship (with SES approval) Special Topics (with SES approval)	
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ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298 ENVS 338 ENVS 350A ENVS 350A ENVS 350C ENVS 350C ENVS 350F ENVS 391 ENVS 391 ENVS 393 ENVS 393 ENVS 399 COMM 101 COMM 277	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health Columate Change and Human Health Solutions to Environmental Problems: Water Solutions to Environmental Problems: Climate Solutions to Environmental Problems: Climate Solutions to Environmental Problems: Food Systems Human Dimensions of Conservation Human Dimensions of Conservation Environmental Research (with SES approval) Environmental Internship (with SES approval) Directed Readings (with SES approval) Public Speaking & Critical Thinking Organizational Communication	
ENVS 279 / HIST 279E ENVS 284 ENVS 297 / HIST 297E ENVS 298 ENVS 338 ENVS 350A ENVS 350A ENVS 350C ENVS 350C ENVS 350F ENVS 391 ENVS 391 ENVS 393 ENVS 399 COMM 101 COMM 277 COMM 306	Climate and History Environmental Justice North American Environmental History Special Topics (with SES approval) Climate Change and Human Health Climate Change and Human Health Solutions to Environmental Problems: Water Solutions to Environmental Problems: Climate Solutions to Environmental Problems: Climate Solutions to Environmental Problems: Food Systems Human Dimensions of Conservation Environmental Research (with SES approval) Environmental Internship (with SES approval) Special Topics (with SES approval) Directed Readings (with SES approval) Public Speaking & Critical Thinking Organizational Communication Environmental Advocacy	
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	Environmental Ethica		ENIVO 207	Food Systems Analysis	
PHIL 287	Environmental Ethics		ENVS 327	Food Systems Analysis	
PSYC 277	Environmental Psychology		ENVS 340	Natural History of Belize	
SOCL 226			ENVS 345	Conservation and Sustainability of Neotropical Ecosystems	
SOCL 252	Global Inequalities		ENVS 350A	Solutions to Environmental Problems: Water	
SOCL 272	Environmental Sociology		ENVS 350A	Solutions to Environmental Problems: Biogas	
SOCL 276	The Sociology and Politics of Food		ENVS 350D	Solutions to Environmental Problems: Climate	
SOCL 278	Global Health		LINV3 3500	Action	
THEO 204	Religious Ethics and the Ecological Crisis		ENVS 350F	Solutions to Environmental Problems: Food	
THEO 344	Theology and Ecology			Systems	
-	cs, and Resource Management	0	ENVS 369	Field Ornithology	
Select one of the	-	3	ENVS 380	Introduction to Geographic Information System	S
ENVS 298	Special Topics (with SES approval)		ENVS 381	Advanced GIS Applications	
ENVS 300	Introduction to Public Health		ENVS 382	Remote Sensing	
ENVS 310	Introduction to Environmental Law & Policy		ENVS 385	Introduction to Global Health	
ENVS 311	Natural Resources and Land Use Law & Policy		ENVS 387	Principles of Ecotoxicology	
ENVS 312	Water Law & Policy		ENVS 388	Applied Environmental Statistics	
ENVS 313	Energy Law & Policy		ENVS 389	Ecological Risk Assessment	
ENVS 327	Food Systems Analysis		ENVS 391	Environmental Research (with SES approval)	
ENVS 332	Industrial Ecology		ENVS 395	Environmental Internship (with SES approval)	
ENVS 333	Introduction to the Circular Economy		ENVS 398	Special Topics (with SES approval)	
ENVS 335	Ecological Economics		ENVS 399	Directed Readings (with SES approval)	
ENVS 336	Design for Circular & Sustainable Business		ANTH 104	The Human Ecological Footprint	
ENVS 338	Climate Change and Human Health		ANTH 303	People and Conservation	
ENVS 363	Sustainable Business Management			PHYS 300-level courses (with SES approval)	
ENVS 364	Sustainability Management in the Global Context	_ 7	Fotal Hours		9
ENVS 383	Human Dimensions of Conservation		Iotal Hours		9
ENVS 384	Conservation Economics		Suggested S	Sequence of Courses	
ENVS 384 ENVS 389	Conservation Economics Ecological Risk Assessment			Sequence of Courses ence of courses is meant to be used as a suggeste	ed
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Year Two				
Fall ENVS 280	Dringinlag of Foology	2		
ENVS 286S	Principles of Ecology Principles of Ecology Lab	3		
LINV3 2003	Hours	4		
Chrine	nouis	4		
Spring ENVS 274	Chemistry of the Environment	2		
ENVS 275	Chemistry of the Environment Chemistry of the Environment Lab	3		
ENVS 218		3		
or ENVS 320	Biodiversity & Biogeography or Conservation Biology	3		
or ENVS 321	or Conservation Biology Lab			
or ENVS 330	or Restoration Ecology			
or ENVS 331	or Restoration Ecology Lab			
or ENVS 383	or Human Dimensions of Conservation			
Justice & Ethics Ch	noice	3		
Society, Ethics, & J	ustice Elective	3		
	Hours	13		
Year Three Fall				
Engaged Learning	Choice	3		
	Hours	3		
Spring				
ENVS 335	Ecological Economics	3		
or ECON 328	or Environmental Economics			
ENVS 218	Biodiversity & Biogeography	3		
or ENVS 320	or Conservation Biology			
or ENVS 321	or Conservation Biology Lab			
or ENVS 330 or ENVS 331	or Restoration Ecology or Restoration Ecology Lab			
or ENVS 383	or Human Dimensions of Conservation			
0. 2	Hours	7		
Year Four	liouio			
Fall				
ENVS 218	Biodiversity & Biogeography	3		
or ENVS 320	or Conservation Biology	Ū		
or ENVS 321	or Conservation Biology Lab			
or ENVS 330	or Restoration Ecology			
or ENVS 331	or Restoration Ecology Lab			
or ENVS 383	or Human Dimensions of Conservation			
PLSC 392	Environmental Politics	3		
Environmental Scie		3		
Spring	Hours	10		
Capstone Choice		3		
Policy, Economics,	& Resource Management Elective	3		
Environmental Science Elective				
	Hours	9		
	Total Hours	69		

#### 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**

- 1. Explain fundamental connections among ecological processes that are the basis of unity and diversity of life.
- 2. Analyze ecological and societal data to apply best management practices in conservation and restoration ecology.
- 3. Synthesize the social, historical, economic, political, and biological causes, consequences, and solutions to our current biodiversity crisis.
- 4. Develop and express a personal philosophy that values protecting and restoring our global bicultural diversity and vital ecosystems.

## **SES Shared Learning Outcomes**

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

- 1. 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.
- 3. Employ knowledge and skills to design and implement solutions that contribute to a just and sustainable world.
- 4. Exemplify the values of environmental and social justice through actions to care for our common home and one another.