## ENVIRONMENTAL SCIENCE/ ENVIRONMENTAL SCIENCE AND SUSTAINABILITY (BS/ MS)

Solving the world's most pressing environmental problems requires understanding the scientific aspects of sustainability. Our program in environmental science prepares students to develop innovative solutions to challenges such as climate change, air and water pollution, and biodiversity loss.

With our Accelerated Bachelor's/Master's Program, Loyola SES students can boost their professional credentials and save time and money by completing an undergraduate degree along with a master of science in environmental science and sustainability degree in as little as five years. The economic and academic benefits are substantial.

## **CURRICULUM**

Environmental Science students complete coursework that includes both a heavy dose of basic science requirements and courses spanning a variety of disciplines pertinent to understanding the context in which environmental challenges reside.

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
Justice and Ethics Choice		
Select one of the	following:	3
ENVS 284	Environmental Justice	
PHIL 287	Environmental Ethics	
THEO 204	Religious Ethics and the Ecological Crisis	
Economics Choice		
ENVS 335	Ecological Economics	3
or ECON 328	Environmental Economics	
Engaged Learning Choice		
Select one of the	following:	3
ENVS 226	Science & Conservation of Freshwater Ecosystem	าร

То	tal Hours		67
Se	ee designated el	lective categories below	
El	ectives		21
	ENVS 395C	Environmental Internship (Capstone)	
	ENVS 391C	Independent Environmental Research (Capstone)	
	ENVS 390	Integrative Seminar	
Se	elect one of the	following:	3
Capstone Choice			
	ENVS 395	Environmental Internship	
	ENVS 391	Environmental Research	
	ENVS 369	Field Ornithology	
	ENVS 350F	Solutions to Environmental Problems: Food Systems	
	ENVS 350C	Solutions to Environmental Problems: Climate Action	
	ENVS 350B	Solutions to Environmental Problems: Biogas	
	ENVS 350A	Solutions to Environmental Problems: Water	
	ENVS 345	Conservation and Sustainability of Neotropical Ecosystems	
	ENVS 340	Natural History of Belize	
	ENVS 283	Environmental Sustainability	
	ENVS 273	Energy and The Environment	
	ENVS 267	Bird Conservation and Ecology	

### **BS Electives**

Code	Title	Hours	
Society, Ethics, and Justice			
Select one of the	following:	3	
ENVS 204	Gender, Health & Environment		
ENVS 260 / COMM 260	Environmental Journalism		
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 338	Climate Change and Human Health		
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 383	Human Dimensions of Conservation		
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 277	Organizational Communication		
COMM 306	Environmental Advocacy		
COMM 322	Guerilla Media		

ENGL 288 Nature in Literature PHIL 287 Environmental Ethics PSVC 277 Environmental Psychology SOCL 252 Science, Technology, & Society SOCL 252 Global Inequalities SOCL 272 Environmental Sociology SOCL 276 The Sociology and Politics of Food SOCL 278 Global Health THEO 204 Religious Ethics and the Ecological Crisis THEO 344 Theology and Ecology Policy, Economics, and Resource Management Select one of the following: 3 ENVS 298 Special Topics (with SES approval) ENVS 300 Introduction to Public Health ENVS 310 Introduction to Develogy ENVS 311 Natural Resources and Land Use Law & Policy ENVS 312 Water Law & Policy ENVS 313 Energy Law & Policy ENVS 327 Food Systems Analysis ENVS 332 Industrial Ecology ENVS 333 Introduction to the Circular Economy ENVS 335 Ecological Economics ENVS 336 Design for Circular & Sustainable Business ENVS 338 Climate Change and Human Health ENVS 363 Sustainable Business Management ENVS 364 Sustainability Management in the Global Context ENVS 381 Londous Economics ENVS 383 Human Dimensions of Conservation ENVS 384 Conservation Economics ENVS 385 Ecological Risk Assessment ENVS 386 Environmental Research (with SES approval) ENVS 389 Ecological Risk Assessment ENVS 391 Environmental Economics GLST 305 Globalization and Environmental Sustainability MGMT 201 Managing People and Organizations PLSC 354 Global Environmental Politics Environmental Science Electives Select five, at least three of which must be at the 300 level: 15 ENVS 204 Gender, Health & Environment ENVS 207 Plants and Civilization ENVS 215 / Ornithology BIOL 215 ENVS 218 Biodiversity & Biogeography ENVS 226 Science & Conservation of Freshwater Ecosystems ENVS 267 Bird Conservation and Ecology ENVS 278 Energy and The Environment ENVS 278 Energy and The Environment ENVS 278 Energy and The Environment ENVS 278 Environmental Sustainability	COMM 379	Digital Sustainability	
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ENVS 273 Energy and The Environment ENVS 278 Hydrology	ENVS 267	-	
ENVS 278 Hydrology	ENVS 273		
	ENVS 278		
	ENVS 283	Environmental Sustainability	

To	otal Hours		21
	BIOL, CHEM, PH	HYS 300-level courses (with SES approval)	
	ANTH 303	People and Conservation	
	ANTH 104	The Human Ecological Footprint	
	ENVS 399	Directed Readings (with SES approval)	
	ENVS 398	Special Topics (with SES approval)	
	ENVS 395	Environmental Internship (with SES approval)	
	ENVS 391	Environmental Research (with SES approval)	
	ENVS 389	Ecological Risk Assessment	
	ENVS 388	Applied Environmental Statistics	
	ENVS 387	Principles of Ecotoxicology	
	ENVS 385	Introduction to Global Health	
	ENVS 383	Human Dimensions of Conservation	
	ENVS 382	Remote Sensing	
	ENVS 381	Advanced GIS Applications	
	ENVS 380	Introduction to Geographic Information Systems	
	ENVS 369	Field Ornithology	
	ENVS 350F	Solutions to Environmental Problems: Food Systems	
	ENVS 350C	Solutions to Environmental Problems: Climate Action	
	ENVS 350B	Solutions to Environmental Problems: Biogas	
	ENVS 350A	Solutions to Environmental Problems: Water	
	ENVS 345	Conservation and Sustainability of Neotropical Ecosystems	
	ENVS 340	Natural History of Belize	
	ENVS 338	Climate Change and Human Health	
	ENVS 330	Restoration Ecology	
	ENVS 327	Food Systems Analysis	
	ENVS 326	Agroecosystems	
	ENVS 325	Sustainable Agriculture	
	ENVS 323	Environmental Microbiology	
	ENVS 322	Invasive Species	
	ENVS 320	Conservation Biology	
	ENVS 319	Winter Ecology	
	ENVS 303	Introduction to Epidemiology	
	ENVS 301	Environmental Health	
	ENVS 300	Introduction to Public Health	
	ENVS 298	Special Topics (with SES approval)	

## **Total Hours**

The Environmental Science and Sustainability MS has the following requirements:

Code Required Course	Title s	Hours 6
ENVS 401	Sustainable Systems - Natural Science Perspectives	
ENVS 402	Sustainable Systems - Social Science Perspecti	ves
Completion of Or	ne of Four Concentrations:	9-12
Environmental Law & Policy		
ENVS 410	Introduction to Environmental Law & Policy	
ENVS 411	Natural Resources and Land Use Law & Policy	
ENVS 412	Water Law & Policy	

ENVS 413	Energy Law & Policy
Geographic Infor	*
ENVS 480	Introduction to Geographic Information Systems
ENVS 481	Advanced GIS Applications
ENVS 482	Remote Sensina
	essment and Planning
ENVS 451	Introduction to Sustainability Concepts & Impacts
ENVS 452	Sustainability Assessment & Reporting I
ENVS 453	Sustainability Assessment & Reporting II
ENVS 454	Sustainability Plan Development & Reporting
Sustainable Busi	, , , , ,
ENVS 433	Introduction to the Circular Economy
ENVS 435	Ecological Economics
ENVS 436	Design for Circular & Sustainable Business
ENVS 463	Sustainable Business Management
	otal of 30 credit hours with required courses) 12-15
	and Quantitative Courses 6
	e at least two courses from the following list of
electives.	e at least two coarses from the following list of
ENVS 420	Conservation Biology
ENVS 422	Invasive Species
ENVS 425	Sustainable Agriculture
ENVS 426	Agroecosystems
ENVS 427	Food Systems Analysis
ENVS 430	Restoration Ecology
ENVS 435	Ecological Economics
ENVS 438	Climate Change and Human Health
ENVS 451	Introduction to Sustainability Concepts & Impacts
ENVS 452	Sustainability Assessment & Reporting I
ENVS 453	Sustainability Assessment & Reporting II
ENVS 480	Introduction to Geographic Information Systems
ENVS 481	Advanced GIS Applications
ENVS 482	Remote Sensing
ENVS 484	Conservation Economics
ENVS 487	Principles of Ecotoxicology
ENVS 488	Applied Environmental Statistics
ENVS 489	Ecological Risk Assessment
ENVS 491	Independent Environmental Research (upon approval)
ENVS 498	Special Topics (upon approval)
ENVS 498L	Special Topics with Lab (upon approval)
ENVS 499	Directed Readings (upon approval)
BIOL 495	Special Topics (Topic: Metagenomics)
BIOL 416	Limnology Lec/Lab
BIOL 418	Aquatic Insects Lecture & Laboratory
BIOL 470	Biostats & Exp Design Lec/Lab
MPBH 401	Environmental Health
MPBH 402	Public Health Practice and Management
MPBH 403	Introduction to Epidemiology
MPBH 404	Biostatistics for Health and Biological Science
MPBH 407	Public Health Policy: Concepts and Practice
MPBH 409	Biostatistics I

MPBH 412	Intro to Statistical Computing for Public Health
MPBH 414	Introduction to Global Health
MPBH 421	Biostatistics II
MPBH 423	Intermediate Epidemiology
MPP 401	Analytical Tools in Public Policy
MPP 402	Cost Benefit Analysis
MPP 403	Public Budget and Finance
MPP 405	Statistical Methods & Analysis for Public Policy I
MPP 406	Statistical Methods & Analysis Public Policy II
MPP 408	Political Feasibility Analysis
SOCL 414	Statistical Methods Analysis I
SOCL 415	Statistical Methods of Analysis II
STAT 403	SAS Program & Applied Statistics
STAT 407	Statistical Design
STAT 436	Topics in Biostatistics

### **Sustainable Society and Business Courses**

Student may choose from courses focused on society's interaction with the environment: environmental law and policy, sustainable business management, and fostering sustainable societies.

	ENVS 410	Introduction to Environmental Law & Policy
	ENVS 411	Natural Resources and Land Use Law & Policy
	ENVS 412	Water Law & Policy
	ENVS 413	Energy Law & Policy
	ENVS 432	Industrial Ecology
	ENVS 433	Introduction to the Circular Economy
	ENVS 436	Design for Circular & Sustainable Business
	ENVS 454	Sustainability Plan Development & Reporting
	ENVS 463	Sustainable Business Management
	ENVS 464	Sustainability Management in the Global Context
	ENVS 483	Human Dimensions of Conservation
	ENVS 491	Independent Environmental Research (upon approval)
	ENVS 498	Special Topics (upon approval)
	ENVS 499	Directed Readings (upon approval)
	MPBH 407	Public Health Policy: Concepts and Practice
	MPP 400	Policy Design and Analysis
	MPP 404	Public Policy Process
	PSYC 460	Social Psychological Theory
	PSYC 461	Attitude and Attitude Change
	PSYC 486	Methods of Program Evaluation
	SOCL 412	Qualitative Methods in Social Research
	SOCL 446	Knowledge, Power & Expertise
	SOCL 463	Sociology & Natural Environment

# **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.

## **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.