

ENVIRONMENTAL POLICY/ ENVIRONMENTAL SCIENCE AND SUSTAINABILITY (BA/ MS)

Well-designed public policies are critical in maintaining and restoring a healthy environment. Public policies influence air and water quality, land use, biodiversity, and public health and shape crucial efforts to fight climate change. Our environmental policy program prepares students to craft and implement public policies that promote ecological conservation, environmental justice, and innovation toward a green economy.

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 Policy students complete coursework spanning a variety of disciplines pertinent to the understanding of environmental issues.

Code	Title	Hours
Core Curriculum		
ENVS 137	Foundations of Environmental Science I	3
ENVS 237	Foundations of Environmental Science II	3
ENVS 238	Foundations of Environmental Science Lab	1
ENVS 200	Environmental Careers and Professional Skills	1
ENVS 203	Environmental Statistics	3
ENVS 280	Principles of Ecology	3
ENVS 286	Principles of Ecology Lab	1
ENVS 310	Introduction to Environmental Law & Policy	3
PLSC 101	American Politics	3
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		
Select one of the following:		3
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 Ecosystems	
ENVS 267	Bird Conservation and Ecology	
ENVS 369	Field Ornithology	
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		18
See designated elective categories below		
Total Hours		57

BA Electives

Code	Title	Hours
Society, Ethics, and Justice		
Select one of the following:		3
ENVS 204	Gender, Health & Environment	
ENVS 279	Climate and History	
ENVS 284	Environmental Justice	
ENVS 297	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 260	Environmental Journalism	
COMM 277	Organizational Communication	
COMM 306	Environmental Advocacy	
COMM 322	Guerilla Media	
COMM 379	Digital Sustainability	
ENGL 288	Nature in Literature	
PHIL 287	Environmental Ethics	
PSYC 277	Environmental Psychology	
SOCL 226	Science, Technology, & Society	
SOCL 252	Global Inequalities	
SOCL 272	Environmental Sociology	
SOCL 276	The Sociology and Politics of Food	

SOCL 278	Global Health	COMM 363	Research Methods in Advertising/Public Relations
THEO 204	Religious Ethics and the Ecological Crisis	MARK 320	Marketing for Environmental Sustainability
THEO 344	Theology and Ecology	SOCL 206	Principles of Social Research
Policy, Economics, and Resource Management			
Select two of the following:		SOCL 301	Statistics for Social Research
ENVS 298	Special Topics (with SES approval)	SOCL 302	Qualitative Research
ENVS 300	Introduction to Public Health	STAT 203	Introduction to Probability & Statistics
ENVS 311	Natural Resources and Land Use Law & Policy	STAT 303	SAS Programming & Applied Statistics
ENVS 312	Water Law & Policy	Environmental Electives	
ENVS 313	Energy Law & Policy	Select two of the following:	
ENVS 327	Food Systems Analysis	COMM 260	Environmental Journalism
ENVS 332	Industrial Ecology	ENVS 204	Gender, Health & Environment
ENVS 333	Introduction to the Circular Economy	ENVS 207	Plants and Civilization
ENVS 335	Ecological Economics	ENVS 215 / BIOL 215	Ornithology
ENVS 336	Design for Circular & Sustainable Business	ENVS 218	Biodiversity & Biogeography
ENVS 338	Climate Change and Human Health	ENVS 223	Soil Ecology
ENVS 363	Sustainable Business Management	ENVS 224	Climate & Climate Change
ENVS 364	Sustainability Management in the Global Context	ENVS 226	Science & Conservation of Freshwater Ecosystems
ENVS 383	Human Dimensions of Conservation	ENVS 227R	Ecology of the Mediterranean Sea
ENVS 384	Conservation Economics	ENVS 267	Bird Conservation and Ecology
ENVS 389	Ecological Risk Assessment	ENVS 273	Energy and The Environment
ENVS 391	Environmental Research (with SES approval)	ENVS 274	Chemistry of the Environment
ENVS 395	Environmental Internship (with SES approval)	ENVS 278	Hydrology
ENVS 398	Special Topics (with SES approval)	ENVS 279	Climate and History
ENVS 399	Directed Readings (with SES approval)	ENVS 283	Environmental Sustainability
ECON 328	Environmental Economics	ENVS 297	North American Environmental History
GLST 305	Globalization and Environmental Sustainability	ENVS 298	Special Topics (with SES approval)
MGMT 201	Managing People and Organizations	ENVS 300	Introduction to Public Health
PLSC 354	Global Environmental Politics	ENVS 301	Environmental Health
Methods and Analysis			
Select one of the following:		ENVS 303	Introduction to Epidemiology
COMM 260	Environmental Journalism	ENVS 311	Natural Resources and Land Use Law & Policy
ENVS 298	Special Topics (with SES approval)	ENVS 312	Water Law & Policy
ENVS 327	Food Systems Analysis	ENVS 313	Energy Law & Policy
ENVS 352	Sustainability Assessment & Reporting I	ENVS 319	Winter Ecology
ENVS 353	Sustainability Assessment & Reporting II	ENVS 320	Conservation Biology
ENVS 354	Sustainability Plan Development & Reporting	ENVS 322	Invasive Species
ENVS 380	Introduction to Geographic Information Systems	ENVS 323	Environmental Microbiology
ENVS 381	Advanced GIS Applications	ENVS 325	Sustainable Agriculture
ENVS 382	Remote Sensing	ENVS 326	Agroecosystems
ENVS 384	Conservation Economics	ENVS 327	Food Systems Analysis
ENVS 388	Applied Environmental Statistics	ENVS 330	Restoration Ecology
ENVS 389	Ecological Risk Assessment	ENVS 338	Climate Change and Human Health
ENVS 391	Environmental Research	ENVS 340	Natural History of Belize
ENVS 395	Environmental Internship	ENVS 345	Conservation and Sustainability of Neotropical Ecosystems
ENVS 398	Special Topics (with SES approval)	ENVS 350A	Solutions to Environmental Problems: Water
ENVS 399	Directed Readings	ENVS 350B	Solutions to Environmental Problems: Biogas
ANTH 317	Ethnographic Methods	ENVS 350C	Solutions to Environmental Problems: Climate Action
BIOL 335	Intro to Biostatistics	ENVS 350F	Solutions to Environmental Problems: Food Systems
COMM 231	Conflict Management and Communication	ENVS 351	Introduction to Sustainability Concepts & Impacts
COMM 234	Interviewing for Communication	ENVS 352	Sustainability Assessment & Reporting I
COMM 277	Organizational Communication		

ENVS 353	Sustainability Assessment & Reporting II
ENVS 354	Sustainability Plan Development & Reporting
ENVS 369	Field Ornithology
ENVS 380	Introduction to Geographic Information Systems
ENVS 381	Advanced GIS Applications
ENVS 385	Introduction to Global Health
ENVS 387	Principles of Ecotoxicology
ENVS 388	Applied Environmental Statistics
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)
ANTH 104	The Human Ecological Footprint
ANTH 303	People and Conservation
BIOL, CHEM, PHYS 300-level courses (with SES approval)	
Total Hours	18

Year 5

The Environmental Science and Sustainability MS has the following requirements:

Code	Title	Hours
Required Courses		6
ENVS 401	Sustainable Systems - Natural Science Perspectives	
ENVS 402	Sustainable Systems - Social Science Perspectives	
Completion of One 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 Information Systems		
ENVS 480	Introduction to Geographic Information Systems	
ENVS 481	Advanced GIS Applications	
ENVS 482	Remote Sensing	
Sustainable Assessment 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 Business		
ENVS 433	Introduction to the Circular Economy	
ENVS 435	Ecological Economics	
ENVS 436	Design for Circular & Sustainable Business	
ENVS 463	Sustainable Business Management	
Electives (for a total of 30 credit hours with required courses)		12-15
Natural Science and Quantitative Courses		6
Students will take at least two courses from the following list of electives.		
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. SPCS 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.