

# *Environmental and Sustainability Sciences and Journalism, BS (Boston)*

## Overview

The climate crisis and other staggering environmental challenges render it essential that we train a new generation of journalists with a strong scientific foundation in environmental science. Clearheaded and scientifically grounded reporting on environmental issues will be essential for tackling these and other future challenges. This combined major is designed to provide training that merges the basic and applied science underlying environmental change with the best principles and journalistic practices to enable students to pursue careers across a wide range of science communication fields.

Due to curricular overlap, students enrolled in this program cannot declare a double major with or declare a minor in ecology and evolutionary biology, environmental studies, or geoscience.

## Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

## Universitywide Requirements

All undergraduate students are required to complete the Universitywide Requirements (<https://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements/>).

## NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (<https://catalog.northeastern.edu/undergraduate/university-academics/nupath/>).

## Restrictions

Due to curricular overlap, students enrolled in this program cannot declare a double major with or declare a minor in ecology and evolutionary biology, environmental studies, or geoscience.

## Environmental and Sustainability Sciences Requirements

Code	Title	Hours
<b>Core Courses</b>		
ENVR 1200 and ENVR 1201 or ENVR 2200	Dynamic Earth and Lab for ENVR 1200 Earth's Changing Cycles	4-5
ENVR 1400 and ENVR 1401	Foundations in Environmental and Sustainability Sciences and Lab for ENVR 1400	5
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	5
ENVR 2515	Sustainable Development	4
Complete one of the following:		5
ENVR 1500 and ENVR 1501	Introduction to Environmental, Social, and Biological Data and Lab for ENVR 1500	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
<b>Environmental and Sustainability Sciences Electives</b>		
Complete four courses from the following lists:		16-19
ENVR 4970	Junior/Senior Honors Project 1	
<i>Earth Oceans and Environmental Change</i>		
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	
ENVR 3125 or ENVR 3600	Global Oceanic Change Oceanography	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	

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ENVR 5150	Climate and Atmospheric Change
ENVR 5190	Soil Science
ENVR 5600	Coastal Processes, Adaptation, and Resilience
ENVR 5670	Global Biogeochemistry

### *Conservation, Restoration, and Management*

EEMB 2400	Introduction to Evolution
EEMB 3460	Conservation Biology
EEMB 3465	Ecological and Conservation Genomics
EEMB 4001	Landscape and Restoration Ecology
ENVR 4505	Wetlands
ENVR 5700	Streams and Watershed Ecology
ENVR 5750	Urban Ecology

### *Sustainable Planning and Development*

ENVR 3150	Food Security and Sustainability
ENVR 3200	Water Resources
ENVR 5000	Community Stakeholder Engagement in Environmental Management and Research
ENVR 5210	Environmental Planning
ENVR 5350	Sustainable Energy and Climate Solutions
ENVR 5563	Advanced Spatial Analysis
ENVR 5800	Climate Adaptation and Nature-Based Solutions

### *Environment and Society*

ENVR 5220	Ecosystem-Based Management
ENVR 5450	Applied Social-Ecological Systems Modeling
POLS 2395	Environmental Politics and Policy
PPUA 5260	Ecological Economics
PPUA 5268	International Environmental Policy
SOCL 2485	Environment, Technology, and Society

## Journalism Requirements

Code	Title	Hours
<b>Foundation Courses</b>		
JRNL 1150	Understanding Today's News	4
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Writing and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
<b>Visual Storytelling</b>		
Complete one of the following:		4
JRNL 2301	Visual Storytelling in Journalism	
JRNL 5309	News Documentary Production	
JRNL 5310	Photojournalism	
JRNL 5314	Video News Reporting and Producing	
<b>Law and Ethics</b>		
Complete one of the following:		4
JRNL 3550	The First Amendment and the Media	
JRNL 4650	Ethics and Diversity in the News Media	
<b>Electives</b>		
Complete any four journalism electives with two at the 3000-level or above.		16

## Integrative Requirements

Code	Title	Hours
<b>Introduction to College</b>		
INSC 1000 or JRNL 1000	Science at Northeastern Journalism at Northeastern	1

**Co-op**

EESC 2000	Professional Development for Co-op	1
or EEM 2000	Professional Development for Co-op	

**Integrative Course**

Courses used as electives may not overlap with the following:

ENVR 4050	Solving Emerging Environmental Challenges through Capstone	4
or ENVR 4997	Senior Thesis	
or ENVR 4971	Junior/Senior Honors Project 2	
JRNL 3650	Science Writing	4
or JRNL 3700	Data Storytelling	

**NUPath Requirements**

The following NUPath requirements are fulfilled by required courses in this major:

- Conducting Formal and Quantitative Reasoning (FQ)
- Demonstrating Thought and Action in a Capstone (CE)
- Employing Ethical Reasoning (ER)
- Engaging Differences and Diversity (DD)
- Engaging with the Natural and Designed World (ND)
- Exploring Creative Expression and Innovation (EI)
- Understanding Societies and Institutions (SI)
- Writing Across Audiences and Genres (WD)
- Two Writing-Intensive Courses in the Disciplines (WI)

Other NUPath requirements may be fulfilled by electives in the major.

**English Requirements (First-Year Writing and Advanced Writing in the Disciplines)**

Code	Title	Hours
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
ENGW 3307	Advanced Writing in the Sciences	4
or ENGW 3303	Advanced Writing in the Environmental Professions	
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
or JRNL 2301	Visual Storytelling in Journalism	

**Journalism GPA Requirement**

Grade of C or better required in the following courses.

Code	Title	Hours
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Writing and Journalist's Toolbox	
JRNL 2201	Journalism 2: Intermediate Reporting	
JRNL 2301	Visual Storytelling in Journalism	

**Science GPA Requirement (Environmental and Sustainability Sciences)**

A minimum 2.000 GPA in the following course codes is required: ENVR, EEMB

**Environmental and Sustainability Sciences/Journalism Combined Major Credit Requirements.**

83 semester hours required in the major

**Program Requirement**

132 total semester hours required

**Plan of Study****Sample Plan of Study****FOUR YEARS, TWO CO-OPS IN SUMMER SECOND HALF/FALL**

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1000 or JRNL 1000		1 ENVR 1200 and ENVR 1201		4-5 Elective		4 Elective	4
ENGW 1111 or 1102		4 JRNL 1101 and JRNL 1102		5 Elective		4 Elective	4
ENVR 1400 and ENVR 1401		5 ENVR elective 1		4			
JRNL 1150		4 Elective		4			
Elective		4					
		18	17-18		8		8
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEMB 2302 and EEMB 2303		5 ENVR 2515		4 Elective		4 Co-op	0
JRNL 2201		4 ENVR 1500, <i>and</i> ENVR 1501, or ENVR 3300 <i>and</i> ENVR 3301		5 Elective		4	
ENVR elective 2		4 JRNL 2301, 5309, 5310, or 5314		4			
JRNL elective 1		4 EESC 2000 or EEAM 2000		1			
		ENVR elective 3		4			
		JRNL elective 2					
		17	18		8		0
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		0 ENVR 4050, 4997, JRNL 3650, or JRNL 3700		4 Elective		4 Co-op	0
		JRNL 3550 or 4650		4 Elective		4	
		ENVR elective 4		4			
		JRNL elective 3		4			
		0	16		8		0
Year 4							
Fall	Hours	Spring	Hours				
Co-op		0 ENVR 4997, 4050, JRNL 3650, or JRNL 3700		4			
		JRNL elective 4		4			
		Elective		4			
		Elective		4			
		0	16				

**Total Hours: 134-135**