

# ENVIRONMENTAL SCIENCE AND SUSTAINABILITY B.S. - ENVIRONMENTAL POLICY AND PLANNING

The Environmental Policy and Planning concentration focuses on policy and planning processes at multiple scales. Students are introduced to real-world environmental problems and the policy and planning approaches, strategies, and tools that can be used to deal with them. Coursework covers U.S. public lands, water, and wildlife policy; community, regional, and federal lands planning; conflict resolution and collaboration; markets and economic incentives; and political institutions and processes.

## Bachelor of Science - Environmental Science and Sustainability; Environmental Policy and Planning Concentration General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umt.edu/academics/general-education-requirements/>) of the catalog.

### Summary

Code	Title	Hours
Lower-Division Required Courses		17-19
<b>Environmental Policy and Planning Concentration Requirements</b>		
Required Courses		21
Biology		3-4
Ecology		3
Economics		3
Mathematics		3-4
Planning		6
Policy and Law		6
Experiential Learning Requirement		
Advanced Writing Requirement		
<b>Total Hours</b>		<b>62-66</b>

Degree Specific Credits: 62-66

Required Cumulative GPA: 2.0

### Lower-Division Required Courses

Note: NRSM 110 will not be required if students declare the major with 60+ credits.

Code	Title	Hours
<b>Complete the following courses:</b>		
NRSM 110	First Year Seminar in Environmental Science and Sustainability	1

NRSM 121S	Environmental Science and Sustainability	3
<b>Complete one of the following:</b>		<b>3-4</b>

GPHY 111N Intro to Physical Geography: Climate, Landforms, and Vegetation  
& GPHY 112N and Intro to Physical Geography Laboratory: Climate, Landforms, and Vegetation

NRSM 211N Soils and Water  
& NRSM 212N and Ecology, Physics and Taxonomy of Soils

**Oral Communication - Complete one of the following courses:**

COMX 111A	Introduction to Public Speaking	3
or THTR 120A	Introduction to Acting I	

**Statistics Requirement - Complete one of the following courses:** **3-4**

FORS 201 Forest Biometrics

STAT 216 Introduction to Statistics

WILD 240 Intro to Biostatistics

**Chemistry - Complete the following course:**

CHMY 121N	Introduction to General Chemistry	4
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**Total Hours** **17-19**

Minimum Required Grade: C-

## Environmental Policy and Planning Concentration Requirements

Rule: Complete all of the following subcategories.

### Required Courses

Code	Title	Hours
<b>Complete all of the following courses:</b>		
FORS 250	Intro to GIS for Forest Mgt	3
GPHY 465	Planning Principles & Processes	3
NRSM 349E	Climate Change Ethics and Policy	3
or NRSM 389E	Ethics and Sustainability	
NRSM 379	Collaborations in Natural Resource Decisions	3
NRSM 422	Natural Resource Policy and Administration	3
PSCI 210S	Intro to American Government	3
PSCI 361	Public Administration	3
<b>Total Hours</b>		<b>21</b>

Minimum Required Grade: C-

### Biology

Code	Title	Hours
<b>Complete one of the following:</b>		
BIOB 160N	Principles of Living Systems	3-4
BIOB 170N	Principles of Biological Diversity	
BIOE 172N	Introductory Ecology	
BIOO 105N	Introduction to Botany	
<b>Total Hours</b>		<b>3-4</b>

Minimum Required Grade: C-

**Ecology**

Code	Title	Hours
<b>Complete one of the following courses:</b>		<b>3</b>
BIOE 447	Ecosystem Ecology	
FORS 330	Forest Ecology	
FORS 333	Fire Ecology	
<b>Total Hours</b>		<b>3</b>

Minimum Required Grade: C-

**Economics**

Code	Title	Hours
<b>Complete one of the following courses:</b>		<b>3</b>
ECNS 433	Economics of the Environment	
FORS 320	Forest Environmental Economics	
GPHY 323S	Economic Geography of Rural Areas	
<b>Total Hours</b>		<b>3</b>

Minimum Required Grade: C-

**Mathematics**

Code	Title	Hours
<b>Complete one of the following:</b>		<b>3-4</b>
M 115	Probability and Linear Mathematics	
M 121	College Algebra	
M 122	College Trigonometry	
M 151	Precalculus	
M 162	Applied Calculus	
<b>Total Hours</b>		<b>3-4</b>

Minimum Required Grade: C-

**Planning**

Code	Title	Hours
<b>Complete two of the following courses:</b>		<b>6</b>
GPHY 335	Water and Sustainability	
GPHY 466	Environmental Planning	
PTRM 485	Recreation Planning	
<b>Total Hours</b>		<b>6</b>

Minimum Required Grade: C-

**Policy and Law**

Code	Title	Hours
<b>Complete two of the following courses:</b>		<b>6</b>
ENST 382	Environmental Law	
NRSM 427	Water Policy	
NRSM 428	Climate Policy	
WILD 410	Wildlife Policy & Biopolitics	
<b>Total Hours</b>		<b>6</b>

Minimum Required Grade: C-

**Experiential Learning Requirement**

Code	Title	Hours
<b>Complete one of the following courses:</b>		<b>3</b>
BIOE 342	Field Ecology	
BIOE 400	Aquatic Microbial Ecology	
BIOE 416	Alpine Ecology	
BIOE 439	Stream Ecology	
BIOE 440	Conservation Ecology	
BIOE 451	Landscape Ecology	
BIOE 453	Lake Ecology	
BIOE 458	Forest and Fire Ecology	
ENST 427	Social Issues: The Mekong Delta	
ENST 437	Climate Change: Mekong Delta	
FORS 130	Introduction to Forestry Field Skills	
FORS 440	Forest Stand Management	
GPHY 385	Field Techniques	
NRSM 115	First Year Seminar in Field Studies in Conservation	
NRSM 273	Wilderness and Civilization Field Studies	
NRSM 298	Internship	
NRSM 345	Watershed Dynamics and Management Issues	
NRSM 398	Internship	
NRSM 495	Ecosystem Science and Restoration Practicum	
NRSM 498	Internship	
NRSM 499	Senior Thesis	
PTRM 150	First Year Seminar in Parks, Tourism, and Recreation Management	
PTRM 345X	Sustaining Human Society & Natural Environment	
PTRM 418	Winter Wilderness Field Studies	
PTRM 484	Capstone in Parks, Tourism, and Recreation Management	
WILD 374	Hunter Check Station	
<b>Total Hours</b>		<b>3</b>

Minimum Required Grade: C-

**Advanced Writing Requirement**

Code	Title	Hours
<b>Complete three of the following courses:</b>		<b>9</b>
BIOE 428	Freshwater Ecology	
BIOE 447	Ecosystem Ecology	
FORS 330	Forest Ecology	
FORS 341	Timber Harvesting & Roads	
FORS 347	Multiple Resource Silviculture	
FORS 349	Practice of Silviculture	
FORS 440	Forest Stand Management	

FORS 499	Senior Thesis
NASX 403	
NRSM 326	Climate and Society
NRSM 349E	Climate Change Ethics and Policy
NRSM 379	Collaborations in Natural Resource Decisions
NRSM 389E	Ethics and Sustainability
NRSM 462	Rangeland Ecology
NRSM 465	Foundations of Restoration Ecology
NRSM 475	Environment & Development
NRSM 495	Ecosystem Science and Restoration Practicum
NRSM 499	Senior Thesis
PTRM 300	Recreation Behavior
WILD 410	Wildlife Policy & Biopolitics
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<b>Total Hours</b>	<b>9</b>

Minimum Required Grade: C-