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Environmental Science and Management, B.S.

The Bachelor of Science in Environmental Science and Management (BS-ENSM) offers students the option to choose between environmental science and environmental management degree tracks to suit their career goals. The program helps students gain a comprehensive understanding of the interrelationships between humans, the Earth, and other living systems. It combines scientific knowledge, management principles, and practical skills to prepare students to tackle environmental and social issues as well as manage and mitigate environmental impacts effectively. The program equips students with skills to work in a variety of fields, including ecology, air, water, and soil pollution control, hydrology, water monitoring and treatment, compliance, environmental consulting, private industry, or other natural science-based careers such as environmental law, public policy, education, and public health.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		121
General Education Requirer	ments	36 Credits
ENGL 1010	Introduction to Academic Writing CC	3
or ENGH 1005	Literacies and Composition Across Contexts CC	
ENGL 2010	Intermediate Academic Writing CC	3
Complete one of the following	j:	4
MATH 1210	Calculus I QL (4) ¹	
MATH 1050	College Algebra QL (4) ²	
MATH 1080	Precalculus QL (5)	
Complete one of the following	j:	3
HIST 1700	American Civilization AS (3)	
HIST 1740	US Economic History AS (3)	
HIST 2700 & HIST 2710	US History to 1877 AS and US History since 1877 AS (6)	
POLS 1000	American Heritage AS (3)	
POLS 1100	American National Government AS (3)	
Complete the following:		
HLTH 1100	Personal Health and Wellness TE	2
or EXSC 1097	Fitness for Life TE	
PHIL 2050	Ethics and Values IH	3
or PHIL 205G	Ethics and Values IH GI	
Distribution Courses:		
Complete one of the following	y:	3
BIOL 1010	General Biology BB (3)	
BIOL 1610	College Biology I BB (4) ³	
ENVT 1110	Introduction to Environmental Management PP (fulfills Physical Science Distribution)	3
Third Science Distribution		3
Complete one of the follow	ring:	
GEO 1010	Introduction to Geology PP (3)	
GEO 1030	Natural Disasters and the Environment PP (3)	
GEO 1040	The Dinosaurian World PP (3)	
GEO 1050	Geology of National Parks PP (3)	
Fine Arts		3
Humanities		3
Social/Behavioral Science (GI	EOG 2000 Recommended)	3
Discipline Core Requiremen	· · · · · · · · · · · · · · · · · · ·	52 Credits
GEO 1015	Introduction to Geology Laboratory	1
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ENVT 1200

CHEM 1210 & CHEM 1215	Principles of Chemistry I PP and Principles of Chemistry I Laboratory	5
CHEM 1220	Principles of Chemistry II PP	5
& CHEM 1225	and Principles of Chemistry II Laboratory	
ENVT 1270	Environmental Microbiology	3
or MICR 3150	Microbial Ecology WE	
ENVT 1300	Environmental Lab and Sampling	2
STAT 2040	Principles of Statistics QL	4
ENVT 2710	Environmental Careers	1
ENVT 2730	Introduction to Soils	4
ENVT 2560	Environmental Health	3
ENVT 3210	Water Quality and Reclamation	4
ENVT 3280	Environmental Law	3
GEOG 3600	Introduction to Geographic Information Systems	4
ENVT 3790	Applied Hydrology WE	4
ENVT 3850	Environmental Policy WE	3
GEO 480R	Earth Science Seminar (Must be taken twice)	1
Complete one of the following of	ombinations:	5
PHYS 2010	College Physics I PP	
& PHYS 2015	and College Physics I Lab (5)	
PHYS 2210 & PHYS 2215	Physics for Scientists and Engineers I PP and Physics for Scientists and Engineers I Lab (5)	
Academic Track Requirement	, , ,	12
		Credits
Select one of the following track	is:	12
Environmental Managemer	nt Track	
ENVT 1200	Environmental Worker Safety (3)	
ENVT 1510	Hazardous Materials Emergency Response (3)	
Complete one of the following	g - Water and Pollution Management	
ENVT 3010	Environmental Toxicology (3)	
ENVT 3320	Hydraulics of Water (3)	
ENVT 3330	Water Resources Management (3)	
	g - Land and Environmental Management	
ENVT 3530	Environmental Management Systems (3)	
ENVT 3750	Land Use Planning (3)	
ENVT 3770	Natural Resources Management (3)	
Environmental Science Tra	•	
METO 1010	Introduction to Meteorology PP (3)	
or METO 1060	Fundamentals of Weather Forecasting PP	
GEOG 3400	Environmental Remote Sensing (3)	
Complete one of the following		
BIOL 2500	Environmental Biology BB (3)	
BIOL 3700	General Ecology (3) ⁴	
BIOL 3800	Conservation Biology (3)	
Complete one of the following		
GEO 3000	Environmental Geochemistry (3)	
METO 3100	Climate and the Earth System (3)	
GEOG 3700	Wetland Studies (3)	
ENVT 3800	Energy Use on Earth GI (3)	
Elective Requirements		21 Crodits
Channel 24 and dita and almost a	token in the case out track from the fell-mine list (at least 45 and the count to 1 lease Decision 5	Credits
Choose 21 credits, not already t	taken in the core or track, from the following list (at least 15 credits must be Upper Division): ⁵	21

Environmental Worker Safety (3)

ENVT 1910 Environmental Tockology (3) ENVT 3930 Environmental Reporting WE (3) ENVT 3930 Hydraulica of Whate (3) ENVT 3330 Water Resources Management (3) ENVT 3330 Environmental Management (3) ENVT 3350 Sake Investigation (3) ENVT 3350 Sake Investigation (3) ENVT 3350 Sake Investigation (3) ENVT 3700 Current Topics in Environmental Management (3) ENVT 3770 Land Use Planning (3) ENVT 3770 Natural Resources Management (3) ENVT 3770 Natural Resources Management (3) ENVT 3770 Resources Management (3) ENVT 3800 Energy Use on Earth (3) ENVT 482R Geologic Environmental Internship (1) ENVT 486R Special Projects in Environmental Management (1) ENVT 486R Special Projects in Environmental Management (1) EEVT 486R Special Projects in Environmental Management (1) EEV 2028 Science Ecurusion (1) EEV 2028 Science Ecurusion (1) EEV 2028 Color Introduction to Oceanography PP (3) EEC 2020 Describ Matural History Ecuration BB (3) EEC 2070 Describ Matural History (3) EEC 2080 Environmental Cachemistry (3) EEC 3100 Isotope Geochemistry (3) EEC 3700 Geologic Hazards EEC 3700 Geologic Hazards EEC 3700 Geologic Hazards EEC 3700 Hydrogeology (undefined) EEC 3700 Sedimentary Geology WE (4) EEC 3700 Hydrogeology (undefined) EEC 3700 Wetland Studies (3) EEC 370	ENIVE ACAD	Hannahara Matariala Errannanan Danas (0)
ENVT 3200	ENVT 1510	Hazardous Materials Emergency Response (3)
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ENVT 3770		• , ,
ENVT 3700		, , ,
ENVT 3800 Energy Use on Earth GI (3) ENVT 482R Geologic Environmental Internship (1) ENVT 482R Special Projects in Environmental Management (1) GEO 1880 Introduction to Oceanography PP (3) GEO 202R Science Excursion (1) GEO 202R Natural History (3) GEO 2070 Desert Natural History (3) GEO 3000 Environmental Geochemistry (3) GEO 3100 Isotope Geochemistry (3) GEO 3886 an and Earth Materials Laboratory (4) GEO 3100 Isotope Geochemistry (3) GEO 3105 Isotope Geochemistry (3) GEO 3205 Isotope Geochemistry (4) GEO 3206 Geologic Hazards Laboratory (4) GEO 4500 Geomorphology WE (4) GEO 4500 Sedimentary Geology WE (4) GEO 4500 Sedimentary Geology WE (4) GEO 4500 Sedimentary Geology WE (4) GEO 3700 Westand Studies Jaboratory (1) GEOG 3700 Westand Studies Laboratory (1) GEOG 3700 Westand Studies Laboratory (1) GEOG 3700 Westand Studies (3) GEOG 3706 Westand Studies Laboratory (1) METO 1060 Fundamental History of the United States (3) GEOG 4100 Geospatial Field Methods (3) HETO 1060 Fundamentals of Weather Forecasting PP (3) METO 1060 Fundamentals of Weather Forecasting PP (4) PHYS 205 College Physics II Lab (1) PHYS 206 Organic Chemistry II (4) CHEM 2310 Organic Chemistry II Laboratory (1) METH 210 Calculus II (4) METH 210 Calculus II (4) BIOL 1810 College Biology I BB (4)		• , ,
ENVT 482R		· , ,
ENVT 495R Special Projects in Environmental Management (1)		•
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MATH 2210 Calculus III (4) BIOL 1610 College Biology I BB (4)	MATH 1210	Calculus I QL (4)
BIOL 1610 College Biology I BB (4)	MATH 1220	Calculus II (4)
	MATH 2210	Calculus III (4)
BIOL 1615 College Biology I Laboratory (1)	BIOL 1610	College Biology I BB (4)
	BIOL 1615	College Biology I Laboratory (1)

BIOL 1620	College Biology II (3)
BIOL 1625	College Biology II Laboratory (1)
BIOL 2500	Environmental Biology BB (3)
BIOL 3700	General Ecology (3) ⁴
BIOL 3705	General Ecology Laboratory (1) ⁴
BIOL 3800	Conservation Biology (3)
BIOL 4000	Freshwater Ecology (4) ⁴
MICR 3150	Microbial Ecology WE (4) ⁴
Or other electives approved by the	ne advisor and chair

1

MATH 1210 is required for PHYS 2110 option

2

Both MATH 1050 and PHYS 1100 is needed for PHY 2210 option.

Otherwise both MATH 1050 and MATH 1060 is required

3

BIOL 1610 has a co-requisite of BIOL 1615 which can count as an elective.

4

This course has a prerequisite that is not in program and may require you to take additional courses.

5

Credits used to satisfy core and/or track requirements cannot double count as an elective.

Graduation Requirements

- 1. Completion of a minimum of 121 semester credits, with a minimum of 40 upper-division credits.
- 2. Overall grade point average of 2.0 (C) or above.
- 3. Grade of C- or better in all ENVT, GEO, and GEOG courses.
- 4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- 5. Completion of an exit interview with the department chair and a Qualtrics Exit Survey prior to graduation.
- 6. Completion of GE and specified departmental requirements.
- 7. Successful completion of at least one Global/Intercultural course.
- 8. Successful completion of at least two Writing Enriched (WE) courses.

Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/ or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track (http://www.uvu.edu/wolverinetrack/).

First Year		
Semester 1		Credit Hours
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC or Literacies and Composition Across Contexts CC	3
Quantitative Literacy		4
ENVT 1110	Introduction to Environmental Management PP	3
Fine Arts Distribution		3
Social/Behavioral Science Distribution		3
	Credit Hours	16
Semester 2		
ENGL 2010	Intermediate Academic Writing CC	3
American Institutions		3
BIOL 1010	General Biology BB	3
GEO 1010	Introduction to Geology PP	3
GEO 1015	Introduction to Geology Laboratory	1
ENVT 2710	Environmental Careers	1
GEO 480R	Earth Science Seminar	0.5
	Credit Hours	14.5

Second Year		
Semester 3		
PHIL 2050	Ethics and Values IH	3
CHEM 1210	Principles of Chemistry I PP	4
CHEM 1215	Principles of Chemistry I Laboratory	1
PHYS 2010	College Physics I PP	5
& PHYS 2015	and College Physics I Lab	
ENVT 2730	Introduction to Soils	4
	Credit Hours	17
Semester 4		
Humanities Distribution		3
CHEM 1220	Principles of Chemistry II PP	4
CHEM 1225	Principles of Chemistry II Laboratory	1
ENVT 1270	Environmental Microbiology	3
ENVT 1300	Environmental Lab and Sampling	2
Track Requirement		3
	Credit Hours	16
Third Year		
Semester 5		
STAT 2040	Principles of Statistics QL	4
ENVT 3210	Water Quality and Reclamation	4
GEOG 3600	Introduction to Geographic Information Systems	4
ENVT 3790	Applied Hydrology WE	4
	Credit Hours	16
Semester 6		
HLTH 1100	Personal Health and Wellness TE	2
or EXSC 1097	or Fitness for Life TE	
ENVT 3280	Environmental Law	3
ENVT 3850	Environmental Policy WE	3
Track Requirement		3
ENVT Elective		4
	Credit Hours	15
Fourth Year		
Semester 7		
ENVT 2560	Environmental Health	3
GEO 480R	Earth Science Seminar	0.5
Track Requirement		3
ENVT Elective		7
	Credit Hours	13.5
Semester 8		
Track Requirement		3
ENVT Elective		10
	Credit Hours	13
	Total Credit Hours	121

Program Learning Outcomes

- 1. Analyze the complex interrelationships among environmental, societal, and economic systems.
- 2. Evaluate the impacts of human activities on environmental problems.
- 3. Employ the scientific method in the field of environmental science and management.
- 4. Communicate scientific findings and environmental management strategies effectively to diverse stakeholders, utilizing written, oral, and visual means.
- 5. Build multi-disciplinary teamwork and leadership skills in environmental and science management field.