Environmental Science and Management, B.S.

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Requirements

Environmental Science is the study of the Earth's surface, including its water and atmosphere, with a particular focus on their relationship to humans and other living things. Environmental Science applies chemistry, physics, mathematics, geography, biology and geology to answer questions about the Earth and its interrelationships with living things. Environmental Management focuses on the maintenance of environmental resources, for example the management of water resources, geological resources, or air quality. Environmental scientists may conduct studies in the field, in the laboratory using advanced analytical equipment, and in the office using specialized computer software. The program is preparation for a variety of career paths, including water monitoring, treatment, and pollution control with local, state or federal agencies; environmental and hydrological consulting with private industry; and other careers that draw on a background in the natural sciences, including law, public policy, and public health.

Total Program Credits: 120

General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Context CC (5)	
	ENGL 2010	Intermediate Academic Writing CC	3
Complete one of the following:			4
	MATH 1210	Calculus I QL [1] (4)	
	MATH 1050	College Algebra QL [2] (4)	
	MATH 1080	Precalculus QL (5)	
Complete the following:			3
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	HIST 2700	US History to 1877 AS (3)	
and	HIST 2710	US History since 1877 AS (3)	
	POLS 1000	American Heritage SS (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 (2)	
	PHIL 2050	Ethics and Values IH	3
or	PHIL 205G	Ethics and Values IH GI (3)	
Distribution Courses			
Complete one of the following:			3
	BIOL 1010	General Biology BB (3)	
or	BIOL 1610	College Biology I BB (4)	
	ENVT 1110	Introduction to Environmental Management	3
Third Science Distribution			3
	Complete one of the following:		
	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 Natural Parks PP (3)	
	Fine Arts		3
	Humanities		3
	Social/Behavioral Science: (GEOG 2000 Recommended)		3
Discipline Core Requirements:			51 Credits
	GEO 1015	Introduction to Geology Laboratory	1
	CHEM 1210	Principles of Chemistry I PP	4
and	CHEM 1215	Principles of Chemistry I Laboratory	1
	CHEM 1220	Principles of Chemistry II PP	4
and	CHEM 1225	Principles of Chemistry II Laboratory	1
	ENVT 1270	Environmental Microbiology	3
or	MIRC 3150	Microbial Ecology WE	
	ENVT 1300	Environmental Lab and Sampling	2
	STAT 2040	Principles of Statistics QL	4
	PHYS 2010	College Physics I PP	4
or	PHYS 2210	Physics for Scientists and Engineers I PP	
	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
Academic Track Requirements:			12 Credits
Select one of the following tracks:			12
Environmental Management Track			
	ENVT 1200	Environmental Worker Safety (3)	
	ENVT 1510	Hazardous Materials Emergency Response (3)	
Complete one of the following - Water and Pollution Management			
	ENVT 3010	Environment Toxicology (3)	
	CIVE 3320	Introduction to Water Resources (3) [4]	
	ENVT 3320	Hydraulics of Water (3)	
	ENVT 3330	Water Resources Management (3)	
Complete one of the following - Land and Environmental Management			
	ENVT 3530	Environmental Management Systems (3)	

	ENVT 3750	Land Use Planning (3)	
	ENVT 3770	Natural Resources Management (3)	
Environmental Science Track			
	METO 1010	Introduction to Meteorology PP (3)	
	GEOG 3400	Environmental Remote Sensing (3)	
Complete one of the following - Biological Sciences			
	BIOL 2500	Environmental Biology BB (3)	
	BIOL 3700	General Ecology (3) [4]	
	BIOL 3800	Conservation Biology (3)	
Complete one of the following - Environmental Sciences			
	GEO 3000	Environmental Geochemistry (3)	
	METO 3100	Climate and the Earth System (3)	
	GEOG 3700	Wetland Studies (3)	
	ENVT 3800	Energy Use on Earth (3)	
Elective Requirements:			21 Credits
Choose 21 credits, not already taken in the core or track, from the following list (at least 15 credits must be Upper Division): [5]			
	ENVT 1200	Environmental Worker Safety (3)	
	ENVT 1510	Hazardous Materials Emergency Response (3)	
	ENVT 3010	Environment Toxicology (3)	
	ENVT 3290	Environmental Reporting WE (3)	
	ENVT 3320	Hydraulics of Water (3)	
	CIVE 3320	Introduction to Water Resources (3) [4]	
	ENVT 3330	Water Resources Management (3)	
	ENVT 3530	Environmental Management Systems (3)	
	ENVT 3550	Site Investigation (3)	
	ENVT 3700	Current Topics in Environmental Management (3)	
	ENVT 3750	Land Use Planning (3)	
	ENVT 3770	Natural Resources Management (3)	
	ENVT 3800	Energy Use on Earth (3)	
	ENVT 482R	Geologic Environmental Internship (1)	
	ENVT 495R	Special Projects in Environmental Management (1)	
	GEO 1080	Introduction to Oceanography PP (3)	
	GEO 202R	Science Excursion (1)	
	GEO 204R	Natural History Excursion BB (1)	
	GEO 2070	Desert Natural History (3)	
	GEO 3000	Environmental Geochemistry (3)	
	GEO 3100	Isotope Geochemistry (3)	
	GEO 3080	Earth Materials WE (3)	
and	GEO 3085	Earth Materials Laboratory (1)	
	GEO 3100	Isotope Geochemistry (3)	
	GEO 3105	Isotope Geochemistry Laboratory (1)	
	GEO 3200	Geologic Hazards (3)	
and	GEO 3205	Geologic Hazards Laboratory (1)	
	GEO 4500	Sedimentary Geology WE (4)	
	GEO 4790	Hydrogeology (3)	
	GEOG 2000	Sustainability and Environment SS (3)	
	GEOG 3650	Advanced Geographic Information Systems (4)	
	GEOG 3500	Geomorphology WE (4)	
or	GEO 3500	Geomorphology WE (4)	
	GEOG 3700	Wetland Studies (3)	
	GEOG 3705	Wetland Studies Laboratory (1)	
	GEOG 3800	Environmental History of the United States (3)	
	GEOG 4100	Geospatial Field Methods (3)	
	GEOG 482R	GIS Internship (1-3)	
	METO 1020	Introduction to Meteorology Laboratory (1)	
	METO 1060	Fundamentals of Weather Forecasting PP (3)	
	METO 3100	Climate and the Earth System (3)	
	PHYS 2015	College Physics I Lab (1)	
	PHYS 2025	College Physics II Lab (1)	
	PHYS 2210	Physics for Scientists and Engineers I PP (4)	
	PHYS 2220	Physics for Scientists and Engineers II PP (4)	
	CHEM 2310	Organic Chemistry I (4)	
	CHEM 2315	Organic Chemistry I Laboratory (1)	
	CHEM 2320	Organic Chemistry II (4)	
	CHEM 2325	Organic Chemistry II Laboratory (1)	
	MATH 1210	Calculus I QL (4)	
	MATH 1220	Calculus II (4)	
	MATH 2210	Calculus III (4)	
	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]	
	MIRC 3150	Microbial Ecology WE (4) [4]	
	Or other electives approved by the advisor and chair.		

Notes:

1. MATH 1210 is required for PHYS 2110 option.
2. Both MATH 1050 and PHYS 1100 are needed for PHY 2210 option. Otherwise both MATH 1050 and MATH 1060 are 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 120 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 GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.
7. Successful completion of at least two Writing Enriched (WE) courses.

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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.

Semester 1	Course Title	Credit Hours
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC or Literacies and Composition Across Context CC	3
Quantitative Literacy		4
ENVT 1110	Introduction to Environmental Management PP	3
Fine Arts Distribution		3
Social/Behavioral Science Distribution		3
	Semester total:	16
Semester 2	Course Title	Credit Hours
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
	Semester total:	14.5
Semester 3	Course Title	Credit Hours
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	4
ENVT 2730	Introduction to Soils	4
	Semester total:	16
Semester 4	Course Title	Credit Hours
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
	Semester total:	16
Semester 5	Course Title	Credit Hours
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
	Semester total:	16
Semester 6	Course Title	Credit Hours
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
ENVT 3280	Environmental Law	3
ENVT 3850	Environmental Policy WE	3
Track Requirement		3
ENVT Elective		4
	Semester total:	15
Semester 7	Course Title	Credit Hours
ENVT 2560	Environmental Health	3
GEO 480R	Earth Science Seminar	0.5
Track Requirement		3
ENVT Elective		7
	Semester total:	13.5
Semester 8	Course Title	Credit Hours
Track Requirement		3
ENVT Elective		10
	Semester total:	13
	Degree total:	120