

ENVIRONMENTAL SOIL SCIENCE (B.S.S.W.S.)

Required course work includes the university requirements (see regulation J-3 (<https://catalog.uidaho.edu/general-requirements-academic-procedures/j-general-requirements-baccalaureate-degrees/#j3>)) and:

Code	Title	Hours
Soil and Water Systems Core		
ASM 315	Irrigation Systems and Water Management	3
AGED 406	Exploring International Agriculture	3
or SOC 350	Food, Culture, and Society	
ENGL 313	Business Writing	3
or ENGL 317	Technical Writing II	
GEOG 385	Foundations of GIS	3
MATH 143	College Algebra	3
PLSC 102	The Science of Plants in Agriculture	3
SOIL 205	The Soil Ecosystem	3
SOIL 206	The Soil Ecosystem Lab	1
SOIL 438	Pesticides in the Environment	3
STAT 251	Statistical Methods	3
Environmental Soil Science Courses		
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Laboratory	1
CHEM 112	General Chemistry II	4
CHEM 112L	General Chemistry II Laboratory	1
CHEM 275	Carbon Compounds	3
or CHEM 277	Organic Chemistry I	
GEO 111	Physical Geology for Science Majors	3
GEO 101L	Physical Geology Lab	1
or GEO 111L	Physical Geology for Science Majors Lab	
MATH 160	Survey of Calculus	4
or MATH 170	Calculus I	
PHYS 111	General Physics I	3
PHYS 111L	General Physics I Lab	1
PHYS 112	General Physics II	3
PHYS 112L	General Physics II Lab	1
SOIL 400	Seminar	1
SOIL 415	Soil and Environmental Physics	3
SOIL 422	Environmental Soil Chemistry	3
SOIL 425	Microbial Ecology	3
SOIL 446	Soil Fertility	1-3
SOIL 454	Pedology	3
EPPN 154	Microbiology and the World Around Us	3
EPPN 155	Microbiology and the World Around Us: Laboratory	1
Total Hours		78-80

Courses to total 120 credits for this degree

Fall Term 1		Hours
ENGL 101	Writing and Rhetoric I	3
MATH 143	College Algebra	3
PLSC 102 OR FOR 221		3
Humanistic and Artistic Ways of Knowing Course		3
Oral Communication Course		3
Hours		15
Spring Term 1		
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Laboratory	1
ENGL 102	Writing and Rhetoric II	3
MATH 160 OR MATH 170		4
Social and Behavioral Ways of Knowing Course		3
Elective Course		2
Hours		16
Fall Term 2		
CHEM 112L	General Chemistry II Laboratory	1
CHEM 112	General Chemistry II	4
GEOG 385	Foundations of GIS	3
PHYS 111	General Physics I	3
PHYS 111L	General Physics I Lab	1
GEO 111	Physical Geology for Science Majors	3
GEO 101L OR GEO 111L		1
Hours		16
Spring Term 2		
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
PHYS 112	General Physics II	3
PHYS 112L	General Physics II Lab	1
SOIL 205	The Soil Ecosystem	3
SOIL 206	The Soil Ecosystem Lab	1
CHEM 275 OR CHEM 277		3
Hours		15
Fall Term 3		
ASM 315	Irrigation Systems and Water Management	3
SOIL 415	Soil and Environmental Physics	3
EPPN 154	Microbiology and the World Around Us	3
EPPN 155	Microbiology and the World Around Us: Laboratory	1
ENGL 313 OR ENGL 317		3
Humanistic and Artistic Ways of Knowing Course		3
Hours		16
Spring Term 3		
SOIL 422	Environmental Soil Chemistry	3
American Diversity Course		3
Elective Course		3
Social and Behavioral Ways of Knowing Course		3
Elective Course (SOIL 456 suggested)		1
Hours		13
Fall Term 4		
SOIL 454	Pedology	3
STAT 251	Statistical Methods	3
AGED 406 OR SOC 350		3
Elective Course		3
Elective Course		3
Hours		15
Spring Term 4		
SOIL 400	Seminar	1
SOIL 425	Microbial Ecology	3
SOIL 446	Soil Fertility	3
International Course		3
SOIL 438	Pesticides in the Environment	3

Elective Course (SOIL 499 suggested)	1
Hours	14
Total Hours	120

The degree map is a guide for the timely completion of your curricular requirements. Your academic advisor or department may be contacted for assistance in interpreting this map. This map is not reflective of your academic history or transcript and it is not official notification of completion of degree or certificate requirements. Please contact the Registrar's Office regarding your official degree/certificate completion status.

1. Students demonstrate knowledge of the physical, biological and chemical principles that determine function in soil and water systems.
2. Students can effectively communicate science-based data to a variety of audiences.
3. Students gain experiential experience in applying their knowledge through internships and participating in student organizations.