

Environmental, Soil and Water Sciences

Degree Offered:

- Master of Science with a major in Environmental, Soil and Water Sciences

A candidate for the M.S. degree in Environmental, Soil, and Water Sciences must meet all University, College, Division, and Program requirements as outlined in the WVU Graduate Catalog.

Program Requirements

All M.S. degree candidates are required to follow a planned program of study. The student develops the plan of study during their first year in the program in conjunction with the graduate committee. The plan must be approved by the Director of the Division and the Associate Dean for Academic Affairs of the Davis College.

Thesis Option:

A minimum cumulative GPA of 3.0 is required in all courses applied toward degree requirements.

Select one of the following:		3
STAT 511	Statistical Methods 1	
BIOS 601 & BIOS 602	Applied Biostatistics 1 and Applied Biostatistics Lab	
Select one of the following:		3
STAT 512	Statistical Methods 2	
BIOS 603 & BIOS 604	Applied Biostatistics 2 and Applied Biostatistics 3	
Seminar		3
AGRN 796	Graduate Seminar	
Research		6
AGRN 797	Research	
Discipline-Oriented Coursework		15
(AGRN, AEM, BIOL, ENVP, GEOG, GEOL, PLSC, RESM, ENGR, CE, FHYD, FMAN, FOR, MINE, GEN)		
Total Hours		30

Non-Thesis Option:

A minimum cumulative GPA of 3.0 is required in all courses applied toward degree requirements.

Select one of the following:		3
STAT 511	Statistical Methods 1	
STAT 512	Statistical Methods 2	
BIOS 601 & BIOS 602	Applied Biostatistics 1 and Applied Biostatistics Lab	
BIOS 603 & BIOS 604	Applied Biostatistics 2 and Applied Biostatistics 3	
Graduate Chemistry/Biochemistry Course		3
AGBI 610	General Biochemistry	
AGBI 612	General Biochemistry	
AGRN 516	Soil Chemistry	
Seminar		3
AGRN 796	Graduate Seminar	
Teaching Practicum		2
AGRN 790	Teaching Practicum	
Discipline-Oriented Coursework		15
(AGRN, AEM, BIOL, ENVP, GEOG, GEOL, PLSC, RESM, ENGR, CE, FHYD, FMAN, FOR, MINE, GEN)		
Independent Study		3
AGRN 795	Independent Study	

Electives

7

Total Hours

36

* Students must complete a minimum of 30 total hours, of which at least 24 hours must be coursework other than research, thesis, project, internship, etc. credits.

Major Learning Outcomes

ENVIRONMENTAL, SOIL AND WATER SCIENCES

Students will acquire fundamental knowledge of agronomy and soil science.

Students will acquire detailed knowledge of their particular subdiscipline or research area, including the scientific literature fundamental to their discipline and the ability to stay current on scientific literature.

Students will acquire technical skills in the field and laboratory.

Students will develop the ability to communicate in writing and orally about scientific concepts and the results of their research.

Students will develop the ability to design, conduct, and interpret the results of experiments.