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.

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<tr>
<th>Select one of the following:</th>
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<tr>
<td>STAT 511 Statistical Methods 1</td>
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<tr>
<td>BIOS 601 &amp; BIOS 602 Applied Biostatistics 1 and Applied Biostatistics Lab</td>
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<tr>
<td>STAT 512 Statistical Methods 2</td>
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<td>BIOS 603 &amp; BIOS 604 Applied Biostatistics 2 and Applied Biostatistics 3</td>
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Seminar
AGRN 796 Graduate Seminar

Research
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.

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Graduate Chemistry/Biochemistry Course
3
AGBI 610 General Biochemistry
AGBI 612 General Biochemistry
AGRN 516 Soil Chemistry

Seminar
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**

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<tr>
<th>Electives</th>
<th>Total Hours</th>
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<td>7</td>
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<tr>
<td>Total Hours</td>
<td>36</td>
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* 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.