PLANT AND SOIL SCIENCES: SOIL AND WATER RESOURCES, BSAG

Requirements for Students Matriculating in or before Academic Year 2022-2023. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 120

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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American History & Government
Select one of the following:
- HIST 1103 | Survey of American History |
- HIST 1483 | American History to 1865 (H) |
- HIST 1493 | American History Since 1865 (DH) |
- POLS 1113 | American Government |

Analytical & Quantitative Thought (A)
- STAT 2013 | Elementary Statistics (A) |

Humanities (H)
- courses designated (H) |

Natural Sciences (N)
- Must include one Laboratory Science (L) course
- CHEM 1314 | Chemistry I (LN) |
- or CHEM 1215 | Chemical Principles I (LN) |

Course designated (N)

Social & Behavioral Sciences (S)
- AGEC 1113 | Introduction to Agricultural Economics (S) |

Additional General Education
- courses designated (A), (H), (N), or (S) |

Hours Subtotal: 40

Diversity (D) & International Dimension (I)
May be completed in any part of the degree plan
- Select at least one Diversity (D) course
- Select at least one International Dimension (I) course

Major Requirements
Core Courses
- SOIL 3433 | Soil Genesis, Morphology, and Classification |
- SOIL 4363 | Environmental Soil Science |
- SOIL 4483 | Soil Microbiology |
- SOIL 4683 | Soil, Water, and Weather |
- SOIL 4893 | Environmental Soil Chemistry |
- GEOL 1114 | Physical Geology (LN) |
- GEOL 4453 | Hydrogeology |
- or NREM 4443 | Watershed Hydrology and Water Quality |

Select one of the following:
- AGCM 3103 | Written Communications in Agricultural Sciences and Natural Resources |
- BCOM 3113 | Written Communication |
- BCOM 3443 | Business Communication for International Students |
- ENGL 3323 | Technical Writing |
- AGCM 3203 | Oral Communications in Agricultural Sciences & Natural Resources (S) |
- SPCH 2713 | Introduction to Speech Communication (S) |
- SPCH 3733 | Elements of Persuasion (S) |
- PLNT 1101 | Orientation to Plant and Soil Sciences |
- PLNT 1213 | Introduction to Plant and Soil Systems |
- PLNT 2041 | Career Development in Plant and Soil Sciences |
- PLNT 4033 | Applied Agricultural Meteorology |
- PLNT 4080 | Professional Internship |
- or PLNT 4990 | Senior Thesis in Plant and Soil Sciences |
- PLNT 4571 | Professional Preparation in Plant and Soil Sciences |
- SOIL 2124 | Fundamentals of Soil Science (N) |
- SOIL 4234 | Soil Nutrient Management |
- MATH 1513 | College Algebra (A) |
- MATH 2103 | Business Calculus (A) |
- MATH 2144 | Calculus I (A) |
- BIOL 1113 | Introductory Biology (N) |
- & BIOL 1111 | Introductory Biology Laboratory (LN) |
- or BIOL 1114 | Introductory Biology (LN) |
- CHEM 1515 | Chemistry II (LN) |
- or CHEM 1225 | Chemical Principles II (LN) |
- CHEM 3013 | Survey of Organic Chemistry |
- & CHEM 3012 | Survey of Organic Chemistry Laboratory |
- BIOC 2344 | Chemistry and Applications of Biomolecules |
- PHYS 1114 | College Physics I (LN) |
- or PHYS 1014 | Descriptive Physics (N) |

Hours Subtotal: 47
Related Courses

Select from the following: 7

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>GEOL 1224</td>
<td>Evolution of the Earth (LN)</td>
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<tr>
<td>GEOL 2254</td>
<td>Practical Mineralogy</td>
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Upper-division GEOL courses

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SOIL 4213</td>
<td>Precision Agriculture</td>
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<tr>
<td>SOIL 4463</td>
<td>Soil and Water Conservation</td>
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<tr>
<td>SOIL 4470</td>
<td>Problems and Special Study</td>
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<tr>
<td>PLNT 2013</td>
<td>Applied Plant Science</td>
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<tr>
<td>PLNT 4470</td>
<td>Problems and Special Study</td>
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Upper-division PLNT courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>NREM 3012</td>
<td>Applied Ecology Laboratory</td>
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<tr>
<td>NREM 3013</td>
<td>Applied Ecology and Conservation</td>
</tr>
<tr>
<td>NREM 3613</td>
<td>Principles of Rangeland Management</td>
</tr>
<tr>
<td>NREM 4043</td>
<td>Natural Resource Administration and Policy</td>
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<tr>
<td>GEOG 3023</td>
<td>Climatology (N)</td>
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<tr>
<td>GEOG 3033</td>
<td>Meteorology (N)</td>
</tr>
<tr>
<td>GEOG 3153</td>
<td>Conservation of Natural Resources (S)</td>
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<tr>
<td>GEOG 4333</td>
<td>Remote Sensing</td>
</tr>
<tr>
<td>AGEC 3503</td>
<td>Natural Resource Economics</td>
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<tr>
<td>AGEC 3703</td>
<td>Issues in Agricultural Policy</td>
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<tr>
<td>AGEC 3713</td>
<td>Agricultural Law</td>
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Upper-division HORT and PLP courses that will count toward chosen minor

Hours Subtotal 33

Electives

Select 0 hours or hours to complete required total for degree 0

Total Hours 120

1

College & Departmental requirements that may be used to meet General Education requirements.

2

If ENGL 3323 Technical Writing is used to satisfy ENGL 1213 Composition II above; hours in this block are reduced by 3.

3

If used as (S) course above, hours in this block reduced by 3.

4

If used as (A) course above, hours in this block reduced by 3.

5

If used as (N) course above, hours in this block reduced by 5.

Other Requirements

- A minimum of 40 semester credit hours and 100 grade points must be earned in courses numbered 3000 or above.
- A 2.00 GPA or higher in upper-division hours.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.