PLANT AND SOIL SCIENCES: CROP PRODUCTION AND MANAGEMENT, BSAG

Requirements for Students Matriculating in or before Academic Year 2021-2022. 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>
</tr>
</thead>
<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>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td></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>
<td></td>
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</table>

American History & Government

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1483</td>
<td>American History to 1865 (H)</td>
<td></td>
</tr>
<tr>
<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
<td></td>
</tr>
<tr>
<td>POLS 1113</td>
<td>American Government</td>
<td>3</td>
</tr>
</tbody>
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Analytical & Quantitative Thought (A)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 2013</td>
<td>Elementary Statistics (A)</td>
<td>3</td>
</tr>
</tbody>
</table>

Humanities (H)

Courses designated (H)                                                                                       | 6     |

Natural Sciences (N)

Must include one Laboratory Science (L) course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1215</td>
<td>Chemical Principles I (LN)</td>
<td></td>
</tr>
</tbody>
</table>

Course designated (N)                                                                                       | 3     |

Social & Behavioral Sciences (S)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 1113</td>
<td>Introduction to Agricultural Economics (S)</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional General Education

Courses designated (A), (H), (N), or (S)                                                                      | 9     |

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

College Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 1011</td>
<td>First Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENTO 2993</td>
<td>Introduction to Entomology (LN)</td>
<td>3</td>
</tr>
</tbody>
</table>

Departmental Requirements

Select one of the following:                                                                                   | 3     |

AGCM 3103 | Written Communications in Agricultural Sciences and Natural Resources |       |
B.COM 3113 | Written Communication                                                |       |
B.COM 3443 | Business Communication for International Students                   |       |
ENGL 3323 | Technical Writing                                                    |       |

Select one of the following:                                                                                   | 3     |

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                               | 1     |
PLNT 1213 | Introduction to Plant and Soil Systems                               | 3     |
PLNT 2041 | Career Development in Plant and Soil Sciences                       | 1     |
PLNT 4033 | Applied Agricultural Meteorology                                     | 3     |
PLNT 4080 | Professional Internship                                            | 3     |
PLNT 4990 | Senior Thesis in Plant and Soil Sciences                            |       |
PLNT 4571 | Professional Preparation in Plant and Soil Sciences                  | 1     |
SOIL 2124 | Fundamentals of Soil Science (N)                                    | 4     |
SOIL 4234 | Soil Nutrient Management                                           | 4     |

Select one of the following:                                                                                   | 3     |

MATH 1513 | College Algebra (A)                                                 | 4     |
MATH 2103 | Business Calculus (A)                                              |       |
MATH 2144 | Calculus I (A)                                                     |       |
BIOL 1114 | Introductory Biology (LN)                                          | 4     |
CHEM 1515 | Chemistry II (LN)                                                  | 5     |
CHEM 1225 | Chemical Principles II (LN)                                        | 5     |

Select one of the following:                                                                                   | 5     |

CHEM 3013 | Survey of Organic Chemistry                                        |       |
& CHEM 3012 | Survey of Organic Chemistry Laboratory                            |       |
BIOC 2344 | Chemistry and Applications of Biomolecules                        |       |
PHYS 1014 | Descriptive Physics (N)                                           |       |

Hours Subtotal                                                                                               | 47    |

Major Requirements

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PBIO 1404</td>
<td>Plant Biology (LN)</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following:                                                                                   | 3     |

PBIO 4463 | Plant Physiology                                                   |       |
PBIO 3263 | Plants and People (N)                                              |       |
PBIO 4423 | Plant Mineral Nutrition                                            |       |
PLNT 2013 | Applied Plant Science                                              | 3     |
PLNT 3011 | Crops of Oklahoma                                                  | 1     |
PLNT 4013 | Principles of Weed Science                                         | 3     |

Select one of the following:                                                                                   | 3     |

PLNT 4123 | Plant-Environment Interactions                                     |       |
PLNT 4573 | Bioenergy Feedstock Production                                     |       |
PLNT 4933 | Plant Biotechnology and Transgenic Plants                           |       |
PLNT 4353 | Plant Breeding                                                     | 3     |
ANSI 4203 | Rangeland and Pasture Utilization                                  | 3     |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3023</td>
<td>General Genetics</td>
<td>3</td>
</tr>
<tr>
<td>or ANSI 3423</td>
<td>Animal Genetics</td>
<td></td>
</tr>
<tr>
<td>SOIL 4213</td>
<td>Precision Agriculture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Related Courses**

Select 4 hours of the following:

- Upper-division PLNT including PLNT 4470
- PLP 3343 Principles of Plant Pathology
- PLP 3553 Fungi: Myths and More
- PLP 3663 Turfgrass Integrated Pest Management
- ENTO 3003 Livestock Entomology
- ENTO 3021 Postharvest, Structural, and Urban Arthropod Pests
- ENTO 3331 Insect Pests of Agronomic Crops
- ENTO 3421 Horticultural Insects
- ENTO 3461 Insects in Forest Ecosystems
- ENTO 4854 Medical and Veterinary Entomology or ENTO 4923 Applications of Biotechnology in Pest Management
- SOIL 3433 Soil Genesis, Morphology, and Classification
- SOIL 4363 Environmental Soil Science
- SOIL 4463 Soil and Water Conservation
- SOIL 4483 Soil Microbiology
- SOIL 4683 Soil, Water, and Weather
- SOIL 4893 Environmental Soil Chemistry
- ANSI 1124 Introduction to the Animal Sciences
- ANSI 2123 Livestock Feeding
- ANSI 3543 Principles of Animal Nutrition
- ANSI 3653 Applied Animal Nutrition
- ANSI 4203 Rangeland and Pasture Utilization
- HORT 3113 Greenhouse Management
- HORT 4133 Temperature Stress Physiology
- HORT 4953 Plant Growth and Development
- HORT 4963 Horticulture Physiology
- AST 1413 Introduction to Engineering in Agriculture
- AST 2313 Surveying
- AST 3011 Ag Structures
- or AST 3211 Engines and Power
- AST 3222 Metals and Welding
- AST 4112 Land Measurement and Site Analysis
- AST 4203 Agricultural Water Management
- AST 4213 Safety and Health in Agriculture
- GEOG 2344 Digital Tools for Environmental Exploration (LN)
- GEOG 3023 Climatology (N)
- GEOG 3033 Meteorology (N)
- NREM 3013 Applied Ecology and Conservation
- NREM 3012 Applied Ecology Laboratory
- NREM 3613 Principles of Rangeland Management

**Total Hours**

| Hours Subtotal | 33 |

**Electives**

Select 0 hours or hours to complete required total for degree

| Hours Subtotal | 0 |

**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.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2027.