PLANT AND SOIL SCIENCES: CROP PRODUCTION AND MANAGEMENT, 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></td>
<td>General Education Requirements</td>
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<tr>
<td></td>
<td>English Composition</td>
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</tr>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
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<td>Select one of the following:</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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<tr>
<td></td>
<td>American History &amp; Government</td>
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<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
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<tr>
<td>HIST 1483</td>
<td>American History to 1865 (H)</td>
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<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
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<td>POLS 1113</td>
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<td></td>
<td>Analytical &amp; Quantitative Thought (A)</td>
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<tr>
<td>STAT 2013</td>
<td>Elementary Statistics (A)</td>
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<td></td>
<td>Humanities (H)</td>
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<tr>
<td>Courses designated (H)</td>
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<tr>
<td></td>
<td>Natural Sciences (N)</td>
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<td>Must include one Laboratory Science (L) course</td>
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<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
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<tr>
<td>or CHEM 1215</td>
<td>Chemical Principles I (LN)</td>
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<td>Course designated (N)</td>
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<tr>
<td>Social &amp; Behavioral Sciences (S)</td>
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<tr>
<td>AGEC 1113</td>
<td>Introduction to Agricultural Economics (S)</td>
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<td></td>
<td>Additional General Education</td>
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<td>Courses designated (A), (H), (N), or (S)</td>
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<tr>
<td>Hours Subtotal</td>
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<tr>
<td>Diversity (D) &amp; International Dimension (I)</td>
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<td>May be completed in any part of the degree plan</td>
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<tr>
<td>Select at least one Diversity (D) course</td>
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<tr>
<td>Select at least one International Dimension (I) course</td>
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<td>College Requirements</td>
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<td>AG 1011</td>
<td>First Year Seminar</td>
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<td>ENTO 2993</td>
<td>Introduction to Entomology (LN)</td>
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<td>Select one of the following:</td>
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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

Select one of the following:

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

Select one of the following:

MATH 1513 College Algebra (A)
MATH 2103 Business Calculus (A)
MATH 2144 Calculus I (A)
BIOL 1113 Introductory Biology (N)
& BIOL 1111 and Introductory Biology Laboratory (LN)
or BIOL 1114 Introductory Biology (LN)
CHEM 1515 Chemistry II (LN)
or CHEM 1225 Chemical Principles II (LN)

Select one of the following:

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

Hours Subtotal: 47

Major Requirements

Core Courses

PBIO 1404 Plant Biology (LN)

Select one of the following:

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

Select one of the following:

PLNT 4123 Plant-Environment Interactions
PLNT 4573 Bioenergy Feedstock Production
PLNT 4933 Plant Biotechnology and Transgenic Plants
PLNT 4353 Plant Breeding
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANSI 4203</td>
<td>Rangeland and Pasture Utilization</td>
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<tr>
<td>or NREM 4603</td>
<td>Rangeland and Pasture Utilization</td>
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<tr>
<td>BIOL 3023</td>
<td>General Genetics</td>
<td>3</td>
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<tr>
<td>or ANSI 3423</td>
<td>Animal Genetics</td>
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<tr>
<td>SOIL 4213</td>
<td>Precision Agriculture</td>
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**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 Problem-Solving (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

**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.
- 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 2028.