PLANT AND SOIL SCIENCES: CROP PRODUCTION AND MANAGEMENT, BSAG

Requirements for Students Matriculating in or before Academic Year 2023-2024. 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>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
<td>3</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>
<td>3</td>
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<td>Select one of the following:</td>
<td>3</td>
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<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
<td>3</td>
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<tr>
<td>HIST 1483</td>
<td>American History to 1865 (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
<td>3</td>
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<tr>
<td>POLS 1113</td>
<td>American Government</td>
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<td>Select one of the following:</td>
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<tr>
<td>STAT 2013</td>
<td>Elementary Statistics (A)</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>Courses designated (H)</td>
<td>6</td>
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<tr>
<td>Natural Sciences (N)</td>
<td>6</td>
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<tr>
<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>Select one of the following:</td>
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<tr>
<td>Social &amp; Behavioral Sciences (S)</td>
<td>3</td>
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<tr>
<td>AGEC 1113</td>
<td>Introduction to Agricultural Economics (S)</td>
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<td>Select one of the following:</td>
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<tr>
<td>Courses designated (A), (H), (N), or (S)</td>
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<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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<tr>
<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>Departmental Requirements</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: 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 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: 3
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)

Select one of the following: 4
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 45

Major Requirements

Core Courses
PBIO 1404 Plant Biology (LN)

Select one of the following: 3
PBIO 4463 Plant Physiology
PLNT 4123 Plant-Environment Interactions
HORT 4963 Horticulture Physiology
PLNT 2013 Applied Plant Science
One hour from:
PLNT 3012 Crops of Oklahoma
or PLNT 3011 Crops of Oklahoma
PLNT 4013 Principles of Weed Science
PLNT 4353 Plant Breeding
ANSI 4203 Rangeland and Pasture Utilization
or NREM 4603 Rangeland and Pasture Utilization
PLNT 4443 Cropping Systems
SOIL 4213  Precision Agriculture  3

Related Courses
Select 9 hours of the following: 9

Upper-division PLNT including PLNT 4470, PLNT 4933, PLNT 4573

PLNT 2011 Agronomic Problem Solving
PBIO 3263 Plants and People (N)
PBIO 4423 Plant Mineral Nutrition
PLP 3343 Principles of Plant Pathology
PLP 3553 Fungi: Myths and More
ENPP 3663 Turfgrass Integrated Pest Management
ENTO 3003 Livestock Entomology
ENTO 3421 Horticultural Insects
ENTO 3461 Insects in Forest Ecosystems
ENTO 4854 Medical and Veterinary Entomology or ENPP 5923 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
SOIL 3033 Soils and Societies (S)
ANSI 1021 Introduction to the Animal Sciences Lab & ANSI 1023 or ANSI 1124 Introduction to the Animal Sciences
ANSI 2123 Livestock Feeding
ANSI 3423 Animal Genetics
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
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
ENVR 4033 Ecology of Invasive Species
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
NREM 4033 Ecology Of Invasive Species

BIOL 3023 General Genetics  35

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 2029.