PLANT AND SOIL SCIENCES: CROP PRODUCTION AND MANAGEMENT, BSAG

Requirements for Students Matriculating in or before Academic Year 2017-2018. 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

### Code | Title | Hours
--- | --- | ---

**General Education Requirements**

**English Composition**

See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)

- ENGL 1113  Composition I  3
- or ENGL 1313  Critical Analysis and Writing I  3

**American History & Government**

Select one of the following:

- HIST 1103  Survey of American History  3
- HIST 1483  American History to 1865  3
- HIST 1493  American History Since 1865  3
- POLS 1113  American Government  3

**Analytical & Quantitative Thought (A)**

- STAT 2013  Elementary Statistics (A)  3

**Humanities (H)**

Courses designated (H)  6

**Natural Sciences (N)**

Must include one Laboratory Science (L) course

- CHEM 1314  General Chemistry (LN)  4
- or CHEM 1215  General Chemistry (LN)  4

Course designated (N)  3

**Social & Behavioral Sciences (S)**

- AGE 1113  Introduction to Agricultural Economics (S)  3

**Additional General Education**

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

**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/Departmental Requirements**

**Agricultural Sciences and Natural Resources**

- AG 1011  First Year Seminar  1
- ENTO 2993  Introduction to Entomology (LN)  3
- PLNT 1213  Introduction to Plant and Soil Systems  3

**Additional Requirements**

- CHEM 1515  General Chemistry (LN)  5
  - or CHEM 1225  General Chemistry (LN)  5
- BIOL 1114  Introductory Biology (LN)  4
- MATH 1513  College Algebra (A)  3
  - or MATH 2144  Calculus I (A)  3

**Written and Oral Communications**

Select one of the following:

- AGCM 3103  Written Communications in Agricultural Sciences and Natural Resources  3
- BCOM 3113  Written Communication  3
- BCOM 3443  Business Communication for International Students  3
- ENGL 3323  Technical Writing  4

Select one of the following:

- AGCM 3203  Oral Communications in Agricultural Sciences & Natural Resources (S)  3
- SPCH 2713  Introduction to Speech Communication (S)  3
- SPCH 3733  Elements of Persuasion (S)  5

**Hours Subtotal**

- 25

**Major Requirements**

**Core Courses**

- BOT 1404  Plant Biology (LN)  4
- BOT 3463  Plant Physiology  3
- PLNT 1101  Orientation to Plant and Soil Sciences  1
- PLNT 2013  Applied Plant Science  3
- PLNT 2041  Career Development in Plant and Soil Sciences  1
- PLNT 4013  Principles of Weed Science  3
- PLNT 4123  Plant-Environment Interactions  3
- PLNT 4353  Plant Breeding  3
- PLNT 4571  Professional Preparation in Plant and Soil Sciences  1
- PLNT 4573  Bioenergy Feedstock Production  3
- PLNT 4580  Professional Internship (3 hours)  3
  - or PLNT 4990  Senior Thesis in Plant and Soil Sciences  3
- PLNT 4470  Problems and Special Study (1 hour)  1
- ANSI 4203  Rangeland and Pasture Utilization  3
- BIOL 3023  General Genetics  3
  - or ANSI 3423  Animal Genetics  3

Select one of the following:

- BIOC 2344  Chemistry and Applications of Biomolecules  4
- CHEM 3015  The Chemistry of Organic Compounds  4
- PHYS 1014  Descriptive Physics (N)  4
- SOIL 2124  Fundamentals of Soil Science (N)  4
- SOIL 4213  Precision Agriculture  3
- SOIL 4234  Soil Nutrient Management  4

**Related Courses**

Select 5 hours of the following:

- Upper division PLNT including PLNT 4470  5
- PLP 3343  Principles of Plant Pathology  3
- PLP 3553  Fungi: Myths and More  3

**Hours Subtotal**

- 120
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PLP 3663</td>
<td>Turfgrass Integrated Pest Management</td>
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<tr>
<td>ENTO 3003</td>
<td>Livestock Entomology</td>
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<tr>
<td>ENTO 3021</td>
<td>Postharvest, Structural, and Urban Arthropod Pests</td>
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<td>ENTO 3331</td>
<td>Insect Pests of Agronomic Crops</td>
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<td>ENTO 3411</td>
<td>Horticultural Insects</td>
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<tr>
<td>ENTO 4854</td>
<td>Medical and Veterinary Entomology</td>
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<tr>
<td>or ENTO 4923</td>
<td>Applications of Biotechnology in Pest Management</td>
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<tr>
<td>SOIL 4483</td>
<td>Soil Microbiology</td>
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<tr>
<td>SOIL 4683</td>
<td>Soil, Water, and Weather</td>
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<td>SOIL 4463</td>
<td>Soil and Water Conservation</td>
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<tr>
<td>SOIL 4333</td>
<td>Soil Genesis, Morphology, and Classification</td>
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<td>SOIL 4893</td>
<td>Soil Chemistry and Environmental Quality</td>
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<td>SOIL 4363</td>
<td>Environmental Soil Science</td>
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<td>Introduction to the Animal Sciences</td>
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<td>ANSI 2123</td>
<td>Livestock Feeding</td>
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<td>ANSI 3543</td>
<td>Principles of Animal Nutrition</td>
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<td>ANSI 3653</td>
<td>Applied Animal Nutrition</td>
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<td>HORT 4953</td>
<td>Plant Growth and Development</td>
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<td>HORT 4963</td>
<td>Horticulture Physiology</td>
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<td>HORT 4133</td>
<td>Temperature Stress Physiology</td>
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<td>HORT 3113</td>
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<tr>
<td>MCAG 1413</td>
<td>Introduction to Engineering in Agriculture</td>
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<td>MCAG 2313</td>
<td>Surveying</td>
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<td>MCAG 3011</td>
<td>Ag Structures</td>
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<td>or MCAG 3211</td>
<td>Engines and Power</td>
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<td>MCAG 4112</td>
<td>Land Measurement and Site Analysis</td>
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<tr>
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<td>MCAG 4212</td>
<td>Safety and Health in Agribusiness</td>
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<td>GEOG 2344</td>
<td>Digital Tools for Environmental Exploration</td>
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<td></td>
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<tr>
<td>GEOG 3023</td>
<td>Climatology (N)</td>
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<td>GEOG 3033</td>
<td>Meteorology (N)</td>
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<td>NREM 3613</td>
<td>Principles of Rangeland Management</td>
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<td>NREM 3013</td>
<td>Applied Ecology and Conservation</td>
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<td>NREM 3012</td>
<td>Applied Ecology Laboratory</td>
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### 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 2023.