# PLANT AND SOIL SCIENCES: CROP PRODUCTION AND MANAGEMENT, BSAG

**Requirements for Students Matriculating in or before Academic Year 2018-2019.** Learn more about University Academic Regulation 3.1 ([http://catalog.okstate.edu/university-academic-regulations/#matriculation](http://catalog.okstate.edu/university-academic-regulations/#matriculation)).

**Minimum Overall Grade Point Average:** 2.00  
**Total Hours:** 120

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td><strong>General Education Requirements</strong></td>
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<tr>
<td><strong>English Composition</strong></td>
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<td>See Academic Regulation 3.5 (<a href="http://catalog.okstate.edu/university-academic-regulations/#english-composition">http://catalog.okstate.edu/university-academic-regulations/#english-composition</a>)</td>
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<tr>
<td>ENGL 1113 or ENGL 1313</td>
<td>Composition I</td>
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<tr>
<td>or ENGL 1213</td>
<td>Critical Analysis and Writing I</td>
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<td>ENGL 1413</td>
<td>Composition II</td>
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<tr>
<td>ENGL 3323</td>
<td>Critical Analysis and Writing II</td>
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<tr>
<td><strong>American History &amp; Government</strong></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</td>
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<td>HIST 1493</td>
<td>American History Since 1865</td>
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<td>POLS 1113</td>
<td>American Government</td>
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<tr>
<td><strong>Analytical &amp; Quantitative Thought (A)</strong></td>
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<tr>
<td>STAT 2013</td>
<td>Elementary Statistics (A)</td>
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<tr>
<td><strong>Humanities (H)</strong></td>
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<td>Courses designated (H)</td>
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<td><strong>Natural Sciences (N)</strong></td>
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<td>Must include one Laboratory Science (L) course</td>
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<td>CHEM 1314 or CHEM 1215</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><strong>Social &amp; Behavioral Sciences (S)</strong></td>
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<tr>
<td>AGEC 1113</td>
<td>Introduction to Agricultural Economics (S)</td>
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<td><strong>Additional General Education</strong></td>
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<td><strong>Diversity (D) &amp; International Dimension (I)</strong></td>
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<td>May be completed in any part of the degree plan</td>
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<td>Select at least one International Dimension (I) course</td>
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<td><strong>College/Departmental Requirements</strong></td>
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<tr>
<td><strong>Agricultural Sciences and Natural Resources</strong></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>PLNT 1213</td>
<td>Introduction to Plant and Soil Systems</td>
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<td><strong>Additional Requirements</strong></td>
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<td>CHEM 1515 or CHEM 1225</td>
<td>Chemistry II (LN)</td>
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<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
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<tr>
<td>MATH 1513 or MATH 2144</td>
<td>College Algebra (A)</td>
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<td><strong>Written and Oral Communications</strong></td>
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<td>Select one of the following:</td>
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<td>AGCM 3103</td>
<td>Written Communications in Agricultural Sciences and Natural Resources</td>
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<td>BCOM 3113</td>
<td>Written Communication</td>
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<td>BCOM 3443</td>
<td>Business Communication for International Students</td>
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<td>ENGL 3323</td>
<td>Technical Writing</td>
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<td>AGCM 3203</td>
<td>Oral Communications in Agricultural Sciences &amp; Natural Resources</td>
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<td>SPCH 2713</td>
<td>Introduction to Speech Communication (S)</td>
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<td>SPCH 3733</td>
<td>Elements of Persuasion (S)</td>
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<td>PBIO 1404</td>
<td>Plant Biology (LN)</td>
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<td>PBIO 4463</td>
<td>Plant Physiology</td>
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<td>PLNT 1101</td>
<td>Orientation to Plant and Soil Sciences</td>
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<td>PLNT 2013</td>
<td>Applied Plant Science</td>
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<td>PLNT 2041</td>
<td>Career Development in Plant and Soil Sciences</td>
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<td>PLNT 4013</td>
<td>Principles of Weed Science</td>
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<td>Select one of the following:</td>
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<tr>
<td>PLNT 4123</td>
<td>Plant-Environment Interactions</td>
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<td>PLNT 4573</td>
<td>Bioenergy Feedstock Production</td>
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<td>PLNT 4933</td>
<td>Plant Biotechnology and Transgenic Plants</td>
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<td>PLNT 4353</td>
<td>Plant Breeding</td>
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<td>PLNT 4571</td>
<td>Professional Preparation in Plant and Soil Sciences</td>
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<td>PLNT 4080 or PLNT 4990</td>
<td>Professional Internship (3 hours)</td>
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<td>PLNT 4470</td>
<td>Problems and Special Study (1 hour)</td>
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<td>ANSI 4203</td>
<td>Rangeland and Pasture Utilization</td>
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<td>BIOL 3023</td>
<td>General Genetics</td>
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<tr>
<td>or ANSI 3423</td>
<td>Animal Genetics</td>
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<td>Select one of the following:</td>
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<tr>
<td>BIOC 2344</td>
<td>Chemistry and Applications of Biomolecules</td>
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<td>CHEM 3015</td>
<td>Survey of Organic Chemistry</td>
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<td>PHYS 1014</td>
<td>Descriptive Physics (N)</td>
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<td>SOIL 2124</td>
<td>Fundamentals of Soil Science (N)</td>
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<td>SOIL 4213</td>
<td>Precision Agriculture</td>
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<td>SOIL 4234</td>
<td>Soil Nutrient Management</td>
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<td>Select 8 hours of the following:</td>
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<td>Upper division PLNT including PLNT 4470</td>
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*Chemistry I (LN)*

*Chemical Principles I (LN)*

*General Genetics*

*Animal Genetics*
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<tr>
<td>PLP 3343</td>
<td>Principles of Plant Pathology</td>
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<tr>
<td>PLP 3553</td>
<td>Fungi: Myths and More</td>
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<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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<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 3421</td>
<td>Horticultural Insects</td>
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<td>ENTO 3461</td>
<td>Insects in Forest Ecosystems</td>
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<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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<td>SOIL 4483</td>
<td>Soil Microbiology</td>
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<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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<td>SOIL 3433</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>ANSI 1124</td>
<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>Horticulture Physiology</td>
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<td>Temperature Stress Physiology</td>
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<td>HORT 3113</td>
<td>Greenhouse Management</td>
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<td>AST 1413</td>
<td>Introduction to Engineering in Agriculture</td>
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<td>AST 2313</td>
<td>Surveying</td>
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<td>AST 3011</td>
<td>Ag Structures</td>
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<td>AST 4112</td>
<td>Land Measurement and Site Analysis</td>
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<td>AST 4203</td>
<td>Irrigation Principles</td>
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<td>AST 4212</td>
<td>Safety and Health Agribusiness</td>
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<td>GEOG 2344</td>
<td>Digital Tools for Environmental Exploration (LN)</td>
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<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>
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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 2024.

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