PLANT AND SOIL SCIENCES: PLANT BIOTECHNOLOGY AND IMPROVEMENT, BSAG

Requirements for Students Matriculating in or before Academic Year 2020-2021. 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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</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></td>
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<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
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<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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American History & Government
Select one of the following: 3
- HIST 1103 Survey of American History
- HIST 1483 American History to 1865 (H)
- HIST 1493 American History Since 1865 (DH)
- POLS 1113 American Government

Analytical & Quantitative Thought (A)
- STAT 2013 Elementary Statistics (A) 1

Humanities (H)
Courses designated (H) 6

Natural Sciences (N)
Must include one Laboratory Science (L) course
- CHEM 1314 Chemistry I (LN) 1

Course designated (N) 3

Social & Behavioral Sciences (S)
- AGEC 1113 Introduction to Agricultural Economics (S) 1

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
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

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<tr>
<td>CHEM 1515</td>
<td>Chemistry II (LN)</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1513</td>
<td>College Algebra (A)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 2144</td>
<td>Calculus I (A)</td>
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Written and Oral Communications
Select one of the following: 3
- AGCM 3103 Written Communications in Agricultural Sciences & Natural Resources
- BCOM 3113 Written Communication
- BCOM 3443 Business Communication for International Students
- ENGL 3323 Technical Writing 4

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) 3

Hours Subtotal 25

Major Requirements
Core Courses
- PBIO 1404 Plant Biology (LN) 4
- PBIO 4463 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
- or PLNT 4573 Bioenergy Feedstock Production
- or PLNT 4933 Plant Biotechnology and Transgenic Plants
- PLNT 4353 Plant Breeding 3
- PLNT 4470 Problems and Special Study 1
- PLNT 4571 Professional Preparation in Plant and Soil Sciences 1
- PLNT 4080 Professional Internship 3
- or PLNT 4990 Senior Thesis in Plant and Soil Sciences
- BIOL 3023 General Genetics 3
- or ANSI 3423 Animal Genetics
- CHEM 3053 Organic Chemistry I 3
- BIOC 3713 Biochemistry I 3
- SOIL 2124 Fundamentals of Soil Science (N) 4
- SOIL 4234 Soil Nutrient Management 4
- PLP 3343 Principles of Plant Pathology 3

Related Courses
Select 9 hours of the following: 9
- BIOC 3723 Biochemistry and Molecular Biology Laboratory
- BIOC 3813 Biochemistry II
- CHEM 3153 Organic Chemistry II
- PBIO 4005 Field Botany
- or PBIO 3114 Plant Taxonomy
- PLNT 4080 Professional Internship
- PLNT 4090 Applied Agricultural Meteorology
- MICR 3223 Advanced Microbiology
MICR 2132  Introduction to Microbiology Laboratory
MICR 2123  Introduction to Microbiology
SOIL 4483  Soil Microbiology
HORT 3113  Greenhouse Management
HORT 4133  Temperature Stress Physiology
HORT 4953  Plant Growth and Development
HORT 4963  Horticulture Physiology

<table>
<thead>
<tr>
<th>Upper-level PLNT</th>
<th>Hours Subtotal</th>
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<tbody>
<tr>
<td></td>
<td>55</td>
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<table>
<thead>
<tr>
<th>Electives</th>
<th>Select 0 hours or hours to complete required total for degree</th>
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| Total Hours      | 120                                                         |

1. College & Departmental requirements that may be used to meet GE requirements.
2. If used as (N) course above, hours in this block reduced by 5.
3. If used as (A) course above, hours in this block reduced by 3.
4. If ENGL 3323 Technical Writing is used to satisfy ENGL 1213 Composition II above; hours in this block are reduced by 3.
5. If used as (S) course above, hours in this block reduced by 3.

**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 2026.