ENTOMOLOGY: INSECT BIOLOGY AND ECOLOGY, BSAG

Requirements for Students Matriculating in or before Academic Year 2024-2025. 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>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td></td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1483</td>
<td>American History to 1865 (H)</td>
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<tr>
<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
<td></td>
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<tr>
<td>POLS 1113</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1483</td>
<td>Mathematical Functions and Their Uses (A)</td>
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<tr>
<td>MATH 1513</td>
<td>College Algebra (A)</td>
<td>3</td>
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<tr>
<td>MATH 1613</td>
<td>Trigonometry (A)</td>
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<tr>
<td>MATH 2103</td>
<td>Business Calculus (A)</td>
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<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
<td>4</td>
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<tr>
<td>or CHEM 1215</td>
<td>Chemical Principles I (LN)</td>
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<tr>
<td>BIOL 1113</td>
<td>Introductory Biology (N)</td>
<td>4</td>
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<tr>
<td>&amp; BIOL 1111</td>
<td>and Introductory Biology Laboratory (LN)</td>
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<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
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<tr>
<td>BIOL 3023</td>
<td>General Genetics</td>
<td>3</td>
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<tr>
<td>PLNT 3554</td>
<td>Plant Genetics and Biotechnology</td>
<td></td>
</tr>
<tr>
<td>ANSI 3423</td>
<td>Animal Genetics</td>
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College/Departmental Requirements

Agricultural Sciences and Natural Resources
Ferguson College of Agriculture course cannot be used here and as an (N)

UNIV 1111 First Year Seminar (or other approved first year seminar course) 1
AGEC 1113 Introduction to Agricultural Economics (S) 3
ENTO 2993 Introduction to Entomology (LN) 3
STAT 2013 Elementary Statistics (A) 3
Select one of the following: 3

ANSI 1124 Introduction to the Animal Sciences
BIOC 2344 Chemistry and Applications of Biomolecules
ENVR 1113 Elements of Environmental Science (N)
FDSC 1133 Fundamentals of Food Science
HORT 1013 Principles of Horticultural Science (LN)
LA 1013 Introduction to Landscape Architecture
NREM 1014 Introduction to Natural History (LN)
NREM 1113 Elements of Forestry
NREM 2013 Ecology of Natural Resources
PLNT 1213 Introduction to Plant and Soil Systems (N)
SOIL 2124 Fundamentals of Soil Science (N)

Written and Oral Communications
Select one of the following: 3

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 2
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)

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

Total Hours Subtotal: 19

Major Requirements

With approval from the advisor and the department head, a maximum of 30 hours of science courses from an accredited doctoral health program may be substituted for major requirements other than the ENTO core courses.

Core Courses

ENTO 3044 Insect Morphology and Physiology 4
ENTO 4464 Insect Biology and Classification 4
ENTO 2001 Introduction to Entomological Research 1
ENTO 3001 Research Skills in Entomology 1
ENTO 4800 Entomology Practicum 1

Entomology or plant pathology course not taken as a core course 12

Related Courses

Genetics:

Select one of the following: 3

BIOL 3023 General Genetics
PLNT 3554 Plant Genetics and Biotechnology
ANSI 3423 Animal Genetics
### Ecology:
Select one of the following:  
- BIOL 3034 General Ecology  
- NREM 4033 Ecology Of Invasive Species

### Chemistry:
CHEM 1225 Chemical Principles II (LN)  
or CHEM 1515 Chemistry II (LN)

Select one of the following:  
- BIOC 3653 Survey of Biochemistry  
- CHEM 3053 Organic Chemistry I

Select 24 hours of the following:  
- ENPP 2143 Global Agricultural Biosecurity and Forensics  
- ENTO 2003 Insects and Society (N)  
- ENTO 2223 Insects in Global Public Health (N)  
- ENTO 3003 Livestock Entomology  
- ENTO 3501 Entomology for Educators  
- ENPP 3663 Turfgrass Integrated Pest Management  
- ENTO 4223 Ecological Methodology  
- ENTO 4400 Special Topics  
- ENTO 4484 Aquatic Entomology  
- ENTO 4573 Introduction to Forensic Entomology  
- ENTO 4733 Insect Behavior and Chemical Ecology  
- ENTO 4854 Medical and Veterinary Entomology

Foreign Language: Up to 10 credit hours of upper division foreign language may be substituted

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<tr>
<th>Hours Subtotal</th>
<th>61</th>
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**Electives**
Select 0 hours or hours to complete required total for degree  

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<tr>
<th>Total Hours</th>
<th>120</th>
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1. College & Departmental requirements that may be used to meet General Education requirements.
2. If ENGL 3323 Technical Writing is substituted for 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.

## 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 2030.