ENTOMOLOGY: BIO-FORENSICS, BSAG

Requirements for Students Matriculating in or before Academic Year 2019-2020. 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>
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<tr>
<td>Select one of the following:</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>
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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>
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<tr>
<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
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<tr>
<td>POLS 1113</td>
<td>American Government</td>
<td>3</td>
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<td>Select one of the following:</td>
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<tr>
<td>MATH 1513</td>
<td>College Algebra (A)</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>AGCM 3103</td>
<td>Written Communications in Agricultural Sciences and Natural Resources</td>
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<tr>
<td>BCOM 3113</td>
<td>Written Communication</td>
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<tr>
<td>BCOM 3443</td>
<td>Business Communication for International Students</td>
<td>3</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing 2</td>
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<tr>
<td>AGCM 3203</td>
<td>Oral Communications in Agricultural Sciences and Natural Resources (S)</td>
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<tr>
<td>SPCH 2713</td>
<td>Introduction to Speech Communication (S)</td>
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<tr>
<td>SPCH 3733</td>
<td>Elements of Persuasion (S)</td>
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Hours Subtotal 19

Major Requirements

Core Courses

Select two of the following: 8
- ENTO 3044 Insect Morphology and Physiology
- ENTO 4464 Insect Biology and Classification
- ENTO 4854 Medical and Veterinary Entomology

Additional Core Courses

- ENTO 4573 Introduction to Forensic Entomology 3
- SOC 4333 Criminology (S) 3
- SOC 4743 Criminalistics: Introduction to Forensic Sciences 3

Additional Entomology

- ENTO 2143 Global Issues in Agricultural Biosecurity and Forensics 3
- ENTO 4800 Entomology Practicum 3

Related Courses

Genetics:

Select one of the following: 3
- BIOL 3023 General Genetics
- PLNT 3554 Plant Genetics and Biotechnology
- ANSI 3423 Animal Genetics

Chemistry:

- CHEM 1515 Chemistry II (LN) 5
Organic Chemistry (5 upper division hours) 5
BIOC 3653 Survey of Biochemistry 3

Lab Courses:
CHEM 2113 Principles of Analytical Chemistry 3
CHEM 2122 Quantitative Analysis Laboratory 2
BIOC 3723 Biochemistry and Molecular Biology Laboratory 3

Additional Biological Courses
Select 7 hours of the following: 7
MICR 2123 & MICR 2132 Introduction to Microbiology and Introduction to Microbiology Laboratory
MICR 3033 Cell and Molecular Biology
MICR 4123 Virology
MICR 4203 Bioinformatics
MICR 4233 Advanced Cell and Molecular Biology
MICR 4253 Concepts in Medical Genetics
MICR 4263 Microbial Genetics: from Genes to Genomes
MICR 4323 Biological Energy Transduction
BIOL 3204 Physiology
BIOL 4215 Mammalian Physiology
BIOL 4283 Endocrinology
BIOL 4293 Behavioral Neuroendocrinology
BIOL 4303 Organismal Ecotoxicology (OR)

Additional Math and Science
Select 7 hours of the following: 7
MATH 2144 Calculus I (A)
MATH 2153 Calculus II (A)
PBIO 1404 Plant Biology (LN)
CHEM 3153 Organic Chemistry II
PHYS 1114 College Physics I (LN)
PHYS 1214 College Physics II (LN)
STAT 2331 SAS Programming
STAT 4013 Statistical Methods I (A)
STAT 4023 Statistical Methods II
BIOL 1604 Animal Biology
BIOL 4133 Evolution (OR)

Upper level entomology, plant pathology, biological sciences, forensic sciences courses not taken for credit in other categories.

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 2025.

Foreign Language
Up to 10 credit hours of upper division foreign language may be substituted for Additional Natural Resources or Biological Sciences

Hours Subtotal 61
Electives
Select 0 hours or hours to complete required total for degree 0
Total Hours 120

College & Departmental requirements that may be used to meet GE requirements.