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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</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>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<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>
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American History & Government
Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
<td></td>
</tr>
<tr>
<td>HIST 1483</td>
<td>American History to 1865 (H)</td>
<td></td>
</tr>
<tr>
<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
<td></td>
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</table>

POLS 1113 | American Government                        | 3     |

Analytical & Quantitative Thought (A)
Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1513</td>
<td>College Algebra (A)</td>
<td>1</td>
</tr>
<tr>
<td>MATH 1613</td>
<td>Trigonometry (A)</td>
<td>1</td>
</tr>
<tr>
<td>MATH 2103</td>
<td>Business Calculus (A)</td>
<td>1</td>
</tr>
</tbody>
</table>

Humanities (H)
Courses designated (H) 6

Natural Sciences (N)
Must include one Laboratory Science (L) course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
<td>1</td>
</tr>
</tbody>
</table>

Social & Behavioral Sciences (S)
Course designated (S) 3

Additional General Education
Courses designated (A), (H), (N), or (S) 8

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/Departmental Requirements
Agricultural Sciences and Natural Resources
Course cannot be used here and as an (N)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 1011</td>
<td>First Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td>AGEC 1113</td>
<td>Introduction to Agricultural Economics (S)</td>
<td>3</td>
</tr>
</tbody>
</table>

Entomology: Bio-Forensics, BSAG
### Organic Chemistry (5 upper division hours)
- BIOC 3653: Survey of Biochemistry (3 hours)

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

### Additional Biological Courses
Select 7 hours of the following:
- 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)

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

### Additional Math and Science
Select 7 hours of the following:
- 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)

Other math and science courses not taken for credit in other categories

### 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

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

2. If ENGL 3323 Technical Writing is substituted for ENGL 1213 Composition II above; hours in this block are 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 2025.