ENTOMOLOGY: BIO-FORENSICS, 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

| Code | Title | Hours |
|----------------------------|---|-------|
| General Education F | Requirements | |
| English Composition | | |
| _ | ulation 3.5 (http://catalog.okstate.edu/ -regulations/#english-composition/) | |
| ENGL 1113 | Composition I | 3 |
| or ENGL 1313 | Critical Analysis and Writing I | |
| Select one of the fo | llowing: | 3 |
| ENGL 1213 | Composition II | |
| ENGL 1413 | Critical Analysis and Writing II | |
| ENGL 3323 | Technical Writing | |
| American History & G | Government | |
| Select one of the fo | llowing: | 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 | 3 |
| Analytical & Quantita | tive Thought (A) | |
| Select one of the fo | 3 () | 3 |
| MATH 1513 | College Algebra (A) ¹ | |
| MATH 1613 | Trigonometry (A) 1 | |
| MATH 2103 | Business Calculus (A) ¹ | |
| Humanities (H) | · , | |
| Courses designated | (H) | 6 |
| Natural Sciences (N) | | |
| ` , | aboratory Science (L) course | |
| CHEM 1314 | Chemistry I (LN) ¹ | 4 |
| Select four hours fro | · , , | 4 |
| BIOL 1113 | Introductory Biology (N) | |
| & BIOL 1111 | and Introductory Biology Laboratory (LN) ¹ | |
| BIOL 1114 | Introductory Biology (LN) ¹ | |
| Social & Behavioral S | ciences (S) | |
| Course designated (| (S) | 3 |
| Additional General Ed | ducation | |
| Courses designated | (A), (H), (N), or (S) ¹ | 8 |
| Hours Subtotal | | 40 |
| Diversity (D) & Inter | national Dimension (I) | |
| May be completed i | n any part of the degree plan | |
| Select at least one I | Diversity (D) course | |
| Select at least one I | nternational Dimension (I) course | |
| College/Department | tal Requirements | |
| | | |

| Ferguson College of A as an (N) | griculture course cannot be used here and | |
|---------------------------------|--|----|
| 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 follo | wing: | 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 | |
| SOIL 2124 | Fundamentals of Soil Science (N) | |
| Written and Oral Comm | nunications | |
| Select one of the follo | wing: | 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 follo | wing: | 3 |
| AGCM 3203 | Oral Communications in Agricultural Sciences & Natural Resources (S) | |
| SPCH 2713 | Introduction to Speech Communication (S) | |
| SPCH 3733 | Elements of Persuasion (S) | |
| Hours Subtotal | | 19 |
| Major Requirements | | |
| Core Courses | | |
| Select two of the follo | wing: | 8 |
| ENTO 3044 | Insect Morphology and Physiology | |
| ENTO 4464 | Insect Biology and Classification | |
| ENTO 4854 | Medical and Veterinary Entomology | |
| Additional Core Course | S | |
| ENTO 4573 | Introduction to Forensic Entomology | 3 |
| SOC 4333 | Criminology (S) | 3 |
| SOC 4743 | Criminalistics: Introduction to Forensic Sciences | 3 |
| Additional Entomology | | |
| ENPP 2143 | Global Agricultural Biosecurity and Forensics | 3 |
| ENTO 4800 | Entomology Practicum | 3 |
| Related Courses | | |
| Genetics: | | |
| Select one of the follo | - | 3 |
| BIOL 3023 | General Genetics | |

Hours Subtotal

Electives

| 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 Biologic | al Courses | |
| Select 7 hours of th | ne following: | 7 |
| MICR 2123 | Introduction to Microbiology | |
| & MICR 2132 | 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 | Cellular Energy Metabolism | |
| BIOL 3204 | Physiology | |
| BIOL 4215 | Mammalian Physiology | |
| BIOL 4283 | Endocrinology | |
| BIOL 4293 | Behavioral Neuroendocrinology | |
| BIOL 4303 | Organismal Ecotoxicology (OR) | |
| | ology, plant pathology, biological sciences, courses not taken for credit in other categories. | |
| Select 7 hours of th | ne 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 4013 | Statistical Methods II | |
| BIOL 1604 | Animal Biology | |
| BIOL 4133 | Evolution (OR) | |
| | science courses not taken for credit in other | |
| categories | science courses not taken for creat in other | |
| Foreign Language | | |
| | rs of upper division foreign language may Additional Natural Resources or Biological | |

| Select 0 hours or hours to complete required total for degree | |
|---|--|
| Total Hours | |

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College & Departmental requirements that may be used to meet General Education requirements.

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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; onefourth 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.