

ENTOMOLOGY: BIO-FORENSICS, 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

Code	Title	Hours
General Education Requirements		
<i>English Composition</i>		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition/)		
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
Select one of the following:		3
ENGL 1213	Composition II	
ENGL 1413	Critical Analysis and Writing II	
ENGL 3323	Technical Writing	
<i>American History & Government</i>		
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	3
<i>Analytical & Quantitative Thought (A)</i>		
Select one of the following:		3
MATH 1513	College Algebra (A) ¹	
MATH 1613	Trigonometry (A) ¹	
MATH 2103	Business Calculus (A) ¹	
<i>Humanities (H)</i>		
Courses designated (H)		6
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
BIOL 1114	Introductory Biology (LN) ¹	4
CHEM 1314	Chemistry I (LN) ¹	4
<i>Social & Behavioral Sciences (S)</i>		
Course designated (S)		3
<i>Additional General Education</i>		
Courses designated (A), (H), (N), or (S) ¹		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		
<i>Agricultural Sciences and Natural Resources</i>		
Ferguson College of Agriculture course cannot be used here and as an (N)		
AG 1011	First Year Seminar	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	
FDSC 1133	Fundamentals of Food Science	
HORT 1013	Principles of Horticultural Science (LN)	
LA 1013	Introduction to Landscape Architecture and Landscape Management	
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)	
<i>Written and Oral Communications</i>		
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)	
Hours Subtotal		19
Major Requirements		
<i>Core Courses</i>		
Select two of the following:		8
ENTO 3044	Insect Morphology and Physiology	
ENTO 4464	Insect Biology and Classification	
ENTO 4854	Medical and Veterinary Entomology	
<i>Additional Core Courses</i>		
ENTO 4573	Introduction to Forensic Entomology	3
SOC 4333	Criminology (S)	3
SOC 4743	Criminalistics: Introduction to Forensic Sciences	3
<i>Additional Entomology</i>		
ENTO 2143	Global Agricultural Biosecurity and Forensics	3
ENTO 4800	Entomology Practicum	3
<i>Related Courses</i>		
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	Cellular Energy Metabolism	
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: 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)	

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
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Electives

Select 0 hours or hours to complete required total for degree	0
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Total Hours	120
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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 2026.

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