

ENTOMOLOGY: PRE-PROFESSIONAL, BSAG

Requirements for Students Matriculating in or before Academic Year 2025-2026. 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>Quantitative Thought & Logical Reasoning (Q)</i>		
Select one of the following:		3
MATH 1513	College Algebra (Q) ¹	
or MATH 2103	Business Calculus (Q)	
<i>Understanding Humanities-Human Heritage & Cultures (H)</i>		
Courses designated (H)		6
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
BIOL 1113	Introductory Biology (N)	4
& BIOL 1111	and Introductory Biology Laboratory (LN) ¹	
or BIOL 1114	Introductory Biology (LN)	
Courses designated (N)		2
<i>Exploring Society and Human Behavior (S)</i>		
Courses designated (S)		3
<i>Diversity (D)</i>		
Courses designated (D)		3
<i>Global Cultural Competency (G)</i>		
Courses designated (G)		3
<i>Additional General Education</i>		
Additional general education credit hours (at least 4 hours) are required to meet the total 40-hour minimum. If courses carry more than one general education designation and can be used to meet multiple minimum general education designation hours above, more than 4 hours of additional general education will be required here to meet the 40-hour minimum.		
Courses designated (Q), (H), (N), (S), (D), (G), or (F) ¹		4

Hours Subtotal		40
College/Departmental Requirements		
<i>Agricultural Sciences and Natural Resources</i>		
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 (Q)	3
or STAT 2023	Elementary Statistics for Business and Economics (Q)	
Select one of the following:		3
ANSI 1124	Introduction to the Animal Sciences	
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)	
<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>Science Core</i>		
CHEM 1314	Chemistry I (LN)	4
CHEM 1515	Chemistry II (LN)	5
CHEM 3053	Organic Chemistry I	3
CHEM 3112	Organic Chemistry Laboratory	2
CHEM 3153	Organic Chemistry II	3
PHYS 1114	College Physics I (LN)	4
PHYS 1214	College Physics II (LN)	4
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
Select one of the following:		3
BIOL 3023	General Genetics (Med)	
ANSI 3423	Animal Genetics (Vet)	
<i>ENTO Requirements</i>		
ENTO 2001	Introduction to Entomological Research	1

ENTO 3001	Research Skills in Entomology	1
ENTO 4044	Insect Morphology and Physiology	4
ENTO 4464	Insect Biology and Classification	4
ENTO 4800	Entomology Practicum	1
<i>Hours Subtotal</i>		44
Select one of the following Emphases:		17
Emphasis 1: Pre-Med Emphasis Requirements		
PSYC 1113	Introductory Psychology (S)	
ENTO 4854	Medical and Veterinary Entomology	
Choose 10 hours of science and related courses		
Alternative: Complete 17 hours in first year of medical school.		
Emphasis 2: Pre-Vet Emphasis Requirements		
ENTO 3003	Livestock Entomology	
ANSI 3543	Principles of Animal Nutrition	
ENTO 4854	Medical and Veterinary Entomology	
Choose 7 hours of science and related courses		
Alternative: Complete 17 hours in the first year of Veterinary Medicine		
Emphasis 3: Pre-Bioforensics Emphasis Requirements		
ENPP 2143	Global Agricultural Biosecurity and Forensics	
ENTO 4573	Introduction to Forensic Entomology	
SOC 4333	Criminology (S)	
SOC 4743	Criminalistics: Introduction to Forensic Sciences	
Choose 5 hours of science and related courses		
Hours Subtotal		17
Electives		
Select 0 hours to complete required total for degree		0
Total Hours		120

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.

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 and 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 2031.