ENTOMOLOGY: PRE-VETERINARY AND PRE-MEDICAL, 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

General Education RequirementsEnglish CompositionSee Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition/)ENGL 1113Composition Ia or ENGL 1313Critical Analysis and Writing ISelect one of the following:3ENGL 1213Composition IIENGL 1213Composition IIENGL 1213Composition IIENGL 3323Technical WritingAmerican History & GovernmentSelect one of the following:3HIST 1103Survey of American HistoryHIST 1483American History to 1865 (H)HIST 1493American GovernmentSolect and a Quantitative Thought (A)3MATH 1513College Algebra (A) 1MATH 1513College Algebra (A) 1or MATH 2103Business Calculus (A)Humanities (H)6Natural Sciences (N)4Guest designated (H)1Must include one Laboratory Science (L) course4BIOL 1113Introductory Biology (N)& BIOL 1113Introductory Biology (N)& BIOL 1113Introductory Biology (LN) 1BIOL 1114Introductory Biology (LN) 1 <t< th=""><th>Code</th><th>Title</th><th>Hours</th></t<>	Code	Title	Hours
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May be completed within the degree plan			40
May be completed within the degree plan			

	International Dimension (I) course	
College/Departmen	•	
5	s and Natural Resources	
Ferguson College o as an (N)	f Agriculture 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
PHYS 1114 & PHYS 1214	College Physics I (LN) and College Physics II (LN)	8
STAT 2013	Elementary Statistics (A)	3
or STAT 2023	Elementary Statistics for Business and Econ (A)	omics
Select one of the fo	llowing:	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	
HOBT 1013	Principles of Horticultural Science (LN)	
LA 1013	Introduction to Landscape Architecture	
NRFM 1014	Introduction to Pandscape Architecture	
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)	
Written and Oral Cor		
Select one of the fo		3
AGCM 3103	Written Communications in Agricultural	5
	Sciences and Natural Resources	
BCOM 3113	Written Communication	
BCOM 3443	Business Communication for International Students	
ENGL 3323	Technical Writing ²	
Hours Subtotal		24
Major Requirement	s	
Core ENTO Courses		
ENTO 3003	Livestock Entomology	3
ENTO 3044	Insect Morphology and Physiology	4
ENTO 4464	Insect Biology and Classification	4
ENTO 4854	Medical and Veterinary Entomology	4
ENTO 2001	Introduction to Entomological Research	1
ENTO 3001	Research Skills in Entomology	1
ENTO 4800	Entomology Practicum (1-3 hours)	1
Additional Core Cou	rses	
MICR 2123 & MICR 2132	Introduction to Microbiology and Introduction to Microbiology Laboratory	5
BIOL 1604	Animal Biology	4
or BIOL 3204	Physiology	
Select one of the fo	llowing:	5

CHEM 3013 & CHEM 3012	Survey of Organic Chemistry and Survey of Organic Chemistry Laboratory	
or		
CHEM 3053 & CHEM 3153 & CHEM 3112	Organic Chemistry I and Organic Chemistry II and Organic Chemistry Laboratory	
BIOC 3653	Survey of Biochemistry	3
Select one of the following:		3
ANSI 3423	Animal Genetics (Vet)	
ANSI 3543	Principles of Animal Nutrition	
BIOL 3023	General Genetics (Med)	
Related Courses		
Select Alternative 1 of	or Alternative 2 (p. 2)	18
Hours Subtotal		56
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.

Alternatives

Alternative 1

Complete the first 2 semesters in a College of Veterinary Medicine or Medical School.

Alternative 2

Code	Title	Hours
Select 18 hours of the	e following:	18
ANSI 3543	Principles of Animal Nutrition	
ANSI 4843	Applications of Biotechnology in Animal Science	
BIOL 3023	General Genetics	
ENTO 3421	Horticultural Insects	
ENTO 3461	Insects in Forest Ecosystems	
ENTO 4733	Insect Behavior and Chemical Ecology	
ENTO 4800	Entomology Practicum (3 hours)	
MICR 3033	Cell and Molecular Biology	
MICR 3253	Immunology	
MATH 2144	Calculus I (A)	
MATH 2153	Calculus II (A)	
MATH 2163	Calculus III	
PSYC 1113	Introductory Psychology (S)	
SOC 1113	Introductory Sociology (S)	
BIOL 3114	Vertebrate Zoology	
BIOL 3204	Physiology	
BIOL 3214	Human Anatomy	
BIOL 4104	General Parasitology	
BIOL 4113	Conservation Genetics	

BIOL 4134	Embryology
BIOL 4215	Mammalian Physiology
BIOL 4273	Environmental Physiology
BIOL 4283	Endocrinology
BIOL 4293	Behavioral Neuroendocrinology

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.