

ENTOMOLOGY: INSECT BIOLOGY AND ECOLOGY, BSAG

Requirements for Students Matriculating in or before Academic Year 2018-2019. 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	
HIST 1493	American History Since 1865	
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)		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>		
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		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		
With approval from the adviser and the department head, a maximum of 30 hours of science courses from an accredited doctoral health program may be substituted for major requirements other than the ENTO core courses of eight hours		
<i>Core Courses</i>		
Select 8 hours of the following:		8
ENTO 3044	Insect Morphology and Physiology	
ENTO 4464	Insect Biology and Classification	
ENTO 4854	Medical and Veterinary Entomology	
<i>Additional Entomology</i>		
ENTO 4800	Entomology Practicum	3
Any entomology or plant pathology course not taken as a core course		12
<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	
Ecology:		
Select one of the following:		3
BIOL 3034	General Ecology	
NREM 4033	Ecology Of Invasive Species	

Chemistry:		
CHEM 1225	Chemical Principles II (LN) ¹	5
or CHEM 1515	Chemistry II (LN)	
Select one of the following:		3
BIOC 3653	Survey of Biochemistry	
CHEM 3015	Survey of Organic Chemistry	
CHEM 3053	Organic Chemistry I	
Additional Natural Resources or Biological Sciences:		
Select 12 hours of the following:		12
BIOC 2344	Chemistry and Applications of Biomolecules	
BIOC 3653	Survey of Biochemistry	
BIOL 1604	Animal Biology	
HORT 3153	Turf Management	
HORT 3084	Plant Propagation	
NREM 2013	Ecology of Natural Resources	
NREM 3063	Natural Resource Biometrics	
NREM 3101	Forest Resource Field Studies	
NREM 3613	Principles of Rangeland Management	
NREM 4213	Forest Biology	
PBIO 1404	Plant Biology (LN)	
PBIO 4463	Plant Physiology	
PLNT 2013	Applied Plant Science	
PLNT 3554	Plant Genetics and Biotechnology	
PLNT 4113	Advanced Weed Science	
PLNT 4123	Plant-Environment Interactions	
PLNT 4353	Plant Breeding	
PLP 3343	Principles of Plant Pathology	
MICR 2123 & MICR 2132	Introduction to Microbiology and Introduction to Microbiology Laboratory	
SOIL 4213	Precision Agriculture	
SOIL 4363	Environmental Soil Science	
SOIL 4893	Soil Chemistry and Environmental Quality	
BIOL 1604	Animal Biology	
BIOL 3104	Invertebrate Zoology	
BIOL 4104	General Parasitology	
BIOL 4133	Evolution	
Other upper level natural science courses not taken for credit in other categories		
Additional Math and Science:		
Select 12 hours of the following:		12
MATH 2103	Business Calculus (A)	
MATH 2144	Calculus I (A)	
MATH 2153	Calculus II (A)	
CHEM 3153 & CHEM 3112	Organic Chemistry II and Organic Chemistry Laboratory	
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	
STAT 4043	Applied Regression Analysis	

BIOL 4133	Evolution	
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.
- ³ If used as (S) course above, hours in this block 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 2024.