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

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 American History & Government 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 Analytical & Quantitative Thought (A) MATH 1513 College Algebra (A) 1 3 or MATH 2103 Business Calculus (A) Humanities (H) Courses designated (H) Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1111 Introductory Biology (N) & BIOL 1111 Introductory Biology (LN) 1 BOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 3 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal Diversity (D) & International Dimension (I)	Code	Title	Hours
See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition/) ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: 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 & Quantitative Thought (A) MATH 1513 College Algebra (A) MATH 2103 Business Calculus (A) Humanities (H) Courses designated (H) Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 Select four hours from the following: BIOL 1113 Introductory Biology (N) & BIOL 1111 Introductory Biology (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 3 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 4 Hours Subtotal Diversity (D) & International Dimension (I) May be completed within the degree plan	General Education F	Requirements	
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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 American History & Government 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 Analytical & Quantitative Thought (A) MATH 1513 College Algebra (A) 1 3 or MATH 2103 Business Calculus (A) Humanities (H) Courses designated (H) Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 3 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	•	` .	
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HIST 1493 American History Since 1865 (DH) POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 1513 College Algebra (A) 1 3 or MATH 2103 Business Calculus (A) Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 1 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	HIST 1103	Survey of American History	
POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 1513 College Algebra (A) 1 3 or MATH 2103 Business Calculus (A) Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 3 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	HIST 1483	American History to 1865 (H)	
Analytical & Quantitative Thought (A) MATH 1513 College Algebra (A) or MATH 2103 Business Calculus (A) Humanities (H) Courses designated (H) Matural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) CHEM 1515 Chemistry II (LN) Select four hours from the following: BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) BIOL 1114 Introductory Biology (LN) Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal Diversity (D) & International Dimension (I) May be completed within the degree plan	HIST 1493	American History Since 1865 (DH)	
MATH 1513 College Algebra (A) 1 3 or MATH 2103 Business Calculus (A) Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) 8 BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 3 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	POLS 1113	American Government	3
or MATH 2103 Business Calculus (A) Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 1 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	Analytical & Quantita	ative Thought (A)	
Humanities (H) Courses designated (H) Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) CHEM 1515 Chemistry II (LN) Select four hours from the following: BIOL 1113 Introductory Biology (N) & BIOL 1111 BIOL 1114 Introductory Biology (LN) Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal Diversity (D) & International Dimension (I) May be completed within the degree plan	MATH 1513	College Algebra (A) ¹	3
Courses designated (H) Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 1 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	or MATH 2103	Business Calculus (A)	
Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 1 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	Humanities (H)		
Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 1 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	Courses designated	I (H)	6
CHEM 1314 Chemistry I (LN) 1 4 CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 1 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	Natural Sciences (N)		
CHEM 1515 Chemistry II (LN) 1 5 Select four hours from the following: 4 BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) 1 BIOL 1114 Introductory Biology (LN) 1 Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 1 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	Must include one La	aboratory Science (L) course	
Select four hours from the following: BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) BIOL 1114 Introductory Biology (LN) Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) Hours Subtotal Diversity (D) & International Dimension (I) May be completed within the degree plan	CHEM 1314	Chemistry I (LN) ¹	4
BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN) BIOL 1114 Introductory Biology (LN) Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) Hours Subtotal Diversity (D) & International Dimension (I) May be completed within the degree plan	CHEM 1515	Chemistry II (LN) ¹	5
& BIOL 1111 and Introductory Biology Laboratory (LN) BIOL 1114 Introductory Biology (LN) Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	Select four hours fro	om the following:	4
Social & Behavioral Sciences (S) SPCH 2713 Introduction to Speech Communication (S) 3 or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) 3 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan			
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or SPCH 3733 Elements of Persuasion (S) General Education Choose from course designated (A), (H), (N), or (S) Hours Subtotal Diversity (D) & International Dimension (I) May be completed within the degree plan	Social & Behavioral S	Sciences (S)	
General Education Choose from course designated (A), (H), (N), or (S) Hours Subtotal Diversity (D) & International Dimension (I) May be completed within the degree plan	SPCH 2713	Introduction to Speech Communication (S)	3
Choose from course designated (A), (H), (N), or (S) Hours Subtotal Diversity (D) & International Dimension (I) May be completed within the degree plan	or SPCH 3733	Elements of Persuasion (S)	
Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed within the degree plan	General Education		
Diversity (D) & International Dimension (I) May be completed within the degree plan	Choose from course	e designated (A), (H), (N), or (S)	3
May be completed within the degree plan	Hours Subtotal		40
	Diversity (D) & Inter	national Dimension (I)	
Select at least one Diversity (D) course	May be completed within the degree plan		
	Select at least one I	Diversity (D) course	

Select at least one Int	ternational Dimension (I) course			
College/Departmenta	l Requirements			
Agricultural Sciences and Natural Resources				
Ferguson College of A as an (N)	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 Econom (A)	ics		
Select one of the follo		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 (N)			
SOIL 2124	Fundamentals of Soil Science (N)			
Written and Oral Comn	nunications			
Select one of the follo	owing:	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			
Hours Subtotal		24		
Major Requirements				
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 Course	es			
MICR 2123 & MICR 2132	Introduction to Microbiology and Introduction to Microbiology Laboratory	5		
BIOL 1604	Animal Biology	4		
or BIOL 3204	Physiology			
ANSI 3543	Principles of Animal Nutrition	3		
Select one of the following:				

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)	
BIOL 3023	General Genetics (Med)	
Related Courses		
Select Alternative 1 of	or Alternative 2 (p. 2)	15
Hours Subtotal		56
Electives		
Select 0 hours to complete required total for degree		0
Total Hours		120

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 15 hours of the following: 15		15
ANSI 4843	Applications of Biotechnology in Animal Science	
BIOL 3023	General Genetics	
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)	
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.