# Required and Elective Courses for the Major in Entomology

*(83+ credits)*

## Required: Entomology Major

**Total 44-45 credits**

01:119:115-116, 117 General Biology and Lab *(4,4,2).*  
*Note: 4 credits can be counted as SEBS core - Natural Sciences*

01:160:161-162, 171 General Chemistry & Lab *(4,4,1)*  
*Note: 4 credits can be counted as SEBS core - Natural Sciences*

01:640:135 Calculus I *(4)* or 01:960:211 Statistics I *(3)*  
or 11:216:369 Analytical Methods in EENR *(3)*

11:216:351 Principles of Ecology *(3)*

11:370:350 Agricultural Entomology & Pest Management *(3)*

11:370:381 Insect Biology *(4)*

11:370:409 Insect Classification *(4)*

11:370:403 Insect Structure and Function *(4)*

11:370:407 Careers and Professional Development in Entomology *(1)*

11:370:495, 496 Seminar in Entomology *(3)*  
*Note: Seminar in Entomology is 1 credit per semester. Students are required to take a total of three times to equal 3 credits*

## Entomology Electives

**At least 5 (15+ credits)**

11:370:308 Apiculture *(3)*

11:370:355 Applied Acarology *(3)*

11:370:414 Forensic Entomology *(3)*

11:370:352 Toxicology of Pesticides *(3)*

11:776:408 Turfgrass Pest Science *(4)*

11:370:406 Medical & Veterinary Entomology *(3)*

11:370:430 Urban Entomology *(3)*

11:370:404 Insect Structure & Function *(4)*

11:370:415 Decomposition Ecology *(3)*

11:370:380 Insect Biotechnology *(3)*

*Note: Additional entomology electives can be taken and counted for approved elective credits*

## Approved General Electives

**At least 8 (24+ credits)**

11:573:232 Fundamentals of Environmental Geomatics *(4)*

11:216:371 Intro to Remote Sensing Image Analysis *(3)*

11:776:302 General Plant Pathology *(3)*

11:776:402 Principles of Weed Science *(3)*

11:776:405 Plant Biosecurity Issues & Technologies *(3)*

01:160:209 Elementary Organic Chemistry *(4)*

01:160:307-308 Organic Chemistry *(4,4)*

01:447:380 Genetics *(4)*

11:115:301 Introductory Biochemistry *(3)*

11:115:403 Biochemistry *(4)*

11:115:404 Biochemistry *(4)*

11:776:305 Plant Genetics *(4)*

11:216:302 Parasite Ecology *(4)*

11:216:317 Conservation Ecology *(3)*

11:216:324 Invertebrate Zoology *(4)*

11:216:332 Plant Ecology *(4)*

11:216:411 Plant Diversity & Evolution *(3)*

11:216:421 Wetland Ecology *(3)*

11:216:441 Animal Behavior *(3)*


11:375:407 Environmental Toxicology *(3)*

11:776:210 Principles of Botany *(4)*

11:776:382 Plant Physiology *(4)*

11:680:390 General Microbiology *(4)*

11:216:269 Evolution of Animal Behavior *(3)*

11:067:328 Animal Genetics *(3)*

11:126:481 Molecular Genetics *(3)*

11:126:484 Tools for Bioinformatic Analysis *(3)*


11:776:391 Weeds, Disease, and Insects of Plants *(3)*

11:020:436 Sustainable Agriculture *(3)*


11:375:453 Soil Ecology *(3)*

*Note: For Careers in Pest Management, the following non-entomology elective courses are recommended:*

11:115:301 Introductory Biochemistry *(3)*

11:115:403 Biochemistry *(4)*

11:115:404 Biochemistry *(4)*

11:375:407 Environmental Toxicology *(3)*

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*Note: Juniors and seniors may, with the permission of the instructor and the graduate dean, register for appropriate graduate courses in entomology for elective credits.*

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