

Agroecology, Horticulture and Environmental Quality

Entomology Option

Why study entomology?

Do you want to learn more about insects, the biggest and most diverse group of animals on the planet?

Would you like to know how to measure and minimize environmental harm caused by human activities?

Do you want to help protect our health and food supplies from damaging insects?

Are you after a solid foundation in science to prepare for an advanced or professional degree?

The **entomology** major emphasizes basic and applied aspects of the study of insects, including how insects influence human health, agriculture, and natural ecosystems. You can prepare for professional careers in entomology or for graduate or professional schools.

Program strengths/highlights

You'll receive a broad scientific education with opportunities to specialize in agricultural and aquatic entomology, biological control, host plant resistance, insect-plant relations, insect ecology, or insect physiology. Insects interact with all groups of terrestrial and freshwater organisms so entomology also draws you into other biological sciences.

You can tailor your program to match your own interests and goals. You will also have opportunities to participate in field and lab research activities with other students and faculty.

Faculty and facilities

Faculty instructors and advisers are committed to educating and assisting students. Greenhouses and field plots are available for student research, coursework, and hands-on training. Students have access to the W.F. Barr Entomological Museum and comprehensive entomological libraries.

Specialized clubs

The Aldrich Entomology Club encourages entomological pursuits among all students interested in insects. Activities include social gatherings, seminars, and collecting trips. The club's grant program supports members who travel to make presentations at meetings or to collect insects for the entomology museum.

Career opportunities

A degree in entomology prepares you for careers in basic and applied entomology, including jobs with private industry, universities, and government agencies.

Pest management specialist—Direct integrated pest management programs for public and private organizations. Work in the field, in greenhouses, and in other settings where insects become pests of plants or animals. Conduct adult education programs.

Field representative—Represent agrochemical companies and advise farmers, ranchers, and other producers on the use of crop protection products.

Program manager—Develop and implement a strategic management plan; recommend actions concerning current pesticide laws. Provide leadership in regulatory compliance, including Environmental Protection Agency (EPA) and worker protection standards. Manage the program's human and financial resources.

Biocontrol consultant—Form your own company to advise clients on biological control options for pest problems. Supply biocontrol agents to clients.

Agricultural inspector—Work with USDA-APHIS to ensure that products imported to the United States are free of insect pests. Inspect products at ports of entry or at their points of origin.

Research assistant—Be a member of a team of scientists studying diverse aspects of entomology from basic biology, to environmental monitoring, to pest management.

Graduate school—Pursue an advanced degree in any area of biology. Your bachelor's program allows you to explore insects in depth, while staying flexible as you develop your career interests.

“The PSES department is awesome because professors know you and care! At the same time, it's big enough to offer amazing opportunities and a variety of clubs to get involved in.” **Mary Barstow, crop science major**

Entomology Option
4-year plan 2007-08

Fall			Spring		
Freshman					
PISc 102	Science of Plants in Ag.	3	Biol 115*	Cells & Evolution of Life	4
CORE 103-149	Core Discovery	4	Chem 112	Principles of Chem II	4
Engl 101	Basic Skills - Writing	3	CORE 153-199	Core Discovery	3
Math 143	Pre-Calculus Algebra & Analytic Geometry	3	Engl 102	Essay Writing	4
or Math 160	Survey of Calculus	4	Comm 101	Fund. of Public Speaking	2
Chem 111	Principles of Chemistry	4			
TOTAL		17-18	TOTAL		17
Sophomore					
Biol 116*	Organisms & Environment	4	Biol 210	Genetics	4
Chem 275	Carbon Compounds	3	Stat 251	Statistical Methods	3
or Chem 277*	Organic Chemistry I	3	Elective	Core Cluster Course	3
Geog 385	GIS Primer	3	Phys	Physics Elective	4
MMBB 250/255	General Microbiology/Lab	5	Math	Math Elective	4
Elective	Core Cluster Course	2			
TOTAL		17	TOTAL		18
Junior					
PISc 205	General Botany	4	Soil 205	The Soil Ecosystem	3
or Biol 213	Prin. of Biol. Struc. & Funct.	4	Biol 314	Ecology & Population Biology	4
Ent 322*	Economic Entomology	3	Ent 440	Insect Identification	4
Engl 313	Business Writing	3	Elective	Life Science Elective	3
or Engl 317	Technical Writing	3	Ent	Entomology Elective	3
PISc 415	Plant Pathology	4			
or Soil 425	Microbial Ecology	3			
TOTAL		13-14	TOTAL		17
Senior					
PISc 400	Seminar	1	PISc 438	Pesticides in the Environment	3
Ent	Entomology Elective	3	Ent 484	Insect Anatomy & Physiology	4
Elective	General Elective	6	Ent	Entomology Elective	3
Elective	Life Science Electives	3	Elective	Core Cluster Course	3
Elective	Core Cluster Course	3	Elective	Core Cluster Course	3
TOTAL		16	TOTAL		16

Note: Course offerings may change from year to year. Always check the current course catalog.

* All classes marked with an asterisk (*) must be completed with a grade of "C" or better before registration is permitted in upper-division entomology classes.

Courses strongly recommended

- Biol 341 Systematic Botany (3 cr.)
- Biol 484 Invertebrate Zoology (4 cr.)
- CS 101 Introduction to Computer Science (3 cr.)
- Ent 398 Internship in Entomology
- Ent 491 Principles of Insect Pest Management (3 cr.)
- Math 170 Analytic Geometry and Calculus I (4 cr.)
- MMBB 380 Introductory Biochemistry (4 cr.)

To learn more

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