

# MINOR IN ENTOMOLOGY

Entomology is a basic and applied science of the study of insects and other arthropods such as ticks and mites. Insects are the most numerous and diverse life on earth and they are essential components of virtually every terrestrial and aquatic ecosystem. Whereas human society benefits directly and indirectly from the varied roles of the vast majority of insects such as pollination, some species may become limiting factors in the production, processing and storage of our food and fiber crops, and to the health humans and animals. The knowledge and skill sets of entomology are essential for the implementation of integrated pest management strategies designed to safely and efficiently produce food for a continuously expanding world population and to control the transmission of insect-borne diseases, while at the same time protecting our environment. Additionally, entomological research can also give us broader insights into the ecology, evolution, and social behavior of animals.

This minor provides students with experience in entomology, a greater appreciation of arthropods, and aids in preparing them for careers in entomology. It provides adequate academic credits to meet most federal and state certification requirements for employment by EPA, USFS, USFWS, state agencies, and local agencies. Finally, the minor prepares the student seeking post baccalaureate degrees with formal entomological training and coursework that is desired for many research projects for either MS and PhD programs.

## Learning Objectives

Students will:

1. Describe, assess, analyze, and synthesize knowledge about arthropod evolution, ecology, physiology, and biotechnology.
2. Integrate skills and knowledge to solve problems related to arthropods in natural and managed ecosystems.
3. Demonstrate understanding of the social, economic, and biophysical aspects of arthropods in ecosystems.

## Advising

Reach out to Chris Amerman (Chris.Amerman@colostate.edu) to schedule an appointment to change your major/minor. The change of major form can be electronically submitted by a student's main advisor to the Registrar's Office.

- Individualized Appointment with Advisor: Link for Scheduling (<https://calendly.com/socr-advising/>) ([https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcalendly.com%2F%2Fsocr-advising%2Fadvising-appointment%3Fmonth%3D2023-03&data=05%7C01%7CGiovanni.Tolentino\\_Ramos%40colostate.edu%7C1a3bedec788549031af108db20c2da86%7Cafb58802ff7a4bb1ab21367ff2ecfc8b%7C0%7C0%7C638139793483113872%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IklhaWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=a07T1zEgzLuGzC6TFEiqRYDibN5xb3xo2ZQzcn%2Fyjr0%3D&reserved=0](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcalendly.com%2F%2Fsocr-advising%2Fadvising-appointment%3Fmonth%3D2023-03&data=05%7C01%7CGiovanni.Tolentino_Ramos%40colostate.edu%7C1a3bedec788549031af108db20c2da86%7Cafb58802ff7a4bb1ab21367ff2ecfc8b%7C0%7C0%7C638139793483113872%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IklhaWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=a07T1zEgzLuGzC6TFEiqRYDibN5xb3xo2ZQzcn%2Fyjr0%3D&reserved=0))

Our majors and minors have no competitive entry requirements. Courses to take if you are interested in the programs include AB 111, BSPM 102, BSPM 302, BSPM 308, and BSPM 361. Students interested in our program should ideally declare in the first two

years, but exceptions can be made depending on the student's previous coursework.

For more information, please visit the Department of Agricultural Biology website (<https://agsci.colostate.edu/agbio/>).

## Requirements Effective Fall 2023

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

Code	Title	Credits
<b>Lower Division</b>		
Select one group from the following:		7-8
Group A:		
BZ 110	Principles of Animal Biology (GT-SC2)	
BZ 120	Principles of Plant Biology (GT-SC1)	
Group B:		
LIFE 102	Attributes of Living Systems (GT-SC1)	
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)	
<b>Upper Division</b>		
BSPM 302	Applied and General Entomology	2
Select a minimum of 12 credits from the following:		12
AB 340	Insect Biotechnology	
AB 410	Understanding Pesticides	
AB 451	Integrated Pest Management	
BSPM 303A	Entomology Laboratory: General	
BSPM 462/ MIP 462/BZ 462	Parasitology and Vector Biology	
BSPM 487	Internship	
or BSPM 495	Independent Study	
NR 312	Applied Insect Ecology	
<b>Program Total Credits:</b>		<b>21-22</b>