

# MINOR IN PLANT HEALTH

Plant health is a key to sustainable crop production. It is a broad topic encompassing the concepts of plant breeding, plant resilience to biotic and abiotic stresses, and adaptation to climate change and associated extremes of drought, heat stress, and pollution. Understanding basic and applied research focused on plant health is key to addressing food insecurities around the world and promoting economically and environmentally sound tactics to maximize plant productivity. This minor will expose students to a broad range of courses in plant pathology, entomology, weed sciences and integrates courses focused on management strategies to improve plant health. The minor aims to prepare students for post-baccalaureate degrees and careers in plant pathology, entomology, and plant health.

## Learning Objectives

Students will:

1. Describe, assess, analyze, and synthesize knowledge about factors that affect plant health.
2. Integrate skills and knowledge to solve problems related to plant health in natural and managed ecosystems.
3. Assess the social, economic, and ecosystem factors that directly and indirectly affect plant health and associated practices.

## 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%2Fsocr-advising%2Fadvising-appointment%3Fmonth%3D2023-03&data=05%7C01%7CGiovanni.Tolentino\\_Ramos%40colostate.edu%7C1a3bedec788549031af108db20c2da86%7Cafb58802ff7a4bb1ab21367ff2ecfc8b%7C0%7C0%7C638139793483113872%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=a07T1zEgzLuGzC6TFEiqRYDibN5xb3xo2ZQzcn%2Fyjr0%3D&reserved=0](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcalendly.com%2Fsocr-advising%2Fadvising-appointment%3Fmonth%3D2023-03&data=05%7C01%7CGiovanni.Tolentino_Ramos%40colostate.edu%7C1a3bedec788549031af108db20c2da86%7Cafb58802ff7a4bb1ab21367ff2ecfc8b%7C0%7C0%7C638139793483113872%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%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 Spring 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
AB 410	Understanding Pesticides	3
BSPM 302	Applied and General Entomology	2
BSPM 303A	Entomology Laboratory: General	2
BSPM 308	Ecology and Management of Weeds	3
BSPM 361	Elements of Plant Pathology	3
Select a minimum of 8 credits from the following (including the selections of BSPM 487 or BSPM 495 or BZ/LIFE courses below):		8
AB 451	Integrated Pest Management	
BSPM 365	Integrated Tree Health Management	
BSPM 423	Evolution and Classification of Insects	
BSPM 450	Molecular Plant-Microbe Interaction	
BSPM 462/ MIP 462/BZ 462	Parasitology and Vector Biology	
BSPM 487 or BSPM 495	Internship Independent Study	
BZ 120 or LIFE 102	Principles of Plant Biology (GT-SC1) <sup>1</sup> Attributes of Living Systems (GT-SC1)	
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1) <sup>1</sup>	
<b>Program Total Credits:</b>		<b>21</b>

<sup>1</sup> May be taken as electives by students in majors that are not in the biological or agricultural sciences.