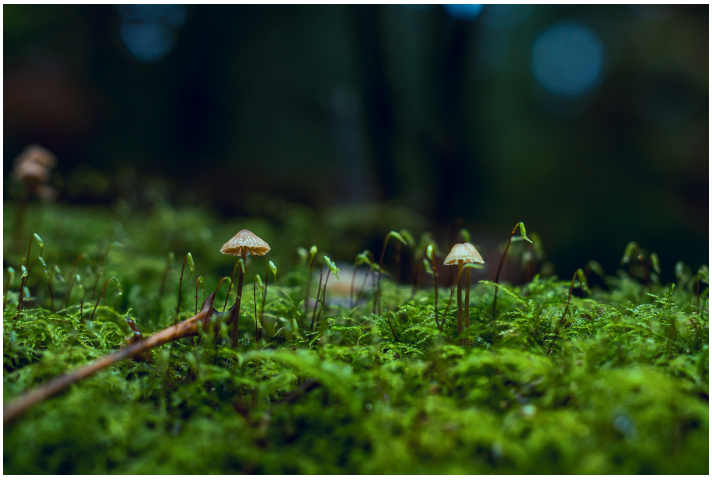
MINOR IN BOTANY



The Minor in Botany allows students to develop expertise in the study of plants, their ecology, and applied sciences that use these skillsets, as a supplement to their major program.

Learning Objectives

Students in the Botany minor develop foundational knowledge in the anatomy, physiology, evolution, and management of plants and use that knowledge to develop expertise and scientific competencies that augment their major program of study.

Department of Biology Undergraduate Programs (https://www.biology.colostate.edu/undergraduate-students/)

Requirements
Effective Fall 2024

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
Lower Division		
Select one group from the following:		4-8
Group A:		
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)	
Upper Division		
Minimum of 10 credits of Upper-Division BZ courses (see list below)		10
Minimum of 7 additional credits from Upper-Division BZ courses or other courses approved by the department (see list below)		7
Program Total Credits:		**21-25**

BZ Upper Division Courses

Code	Title	Credits
BZ 223	Plant Identification	3
BZ 325	Plant Systematics	4
BZ 331	Developmental Plant Anatomy	4
BZ 333	Introductory Mycology	4
BZ 342	Exploring Range Shifts in a Changing World	3
BZ 384	Supervised College Teaching	1-5
BZ 424/BSPM 424	Principles of Systematic Science	3
BZ 440	Plant Physiology	3
BZ 441	Plant Physiology Laboratory	2
BZ 450	Plant Ecology	4
BZ 460	Genome Evolution	4
BZ 471	Stream Biology and Ecology	3
BZ 472	Stream Biology and Ecology Laboratory	1
BZ 476/BZ 576	Genetics of Model Organisms	3
BZ 477	Genome Editing Laboratory	2
BZ 487	Internship	1-12
BZ 495	Independent Study	1-3
BZ 498	Laboratory or Field Research	1-6
BZ 530	Ecological Plant Morphology	2
BZ 540	Translocation in Plants	2
BZ 570	Molecular Aspects of Plant Development	3
BZ 572	Phytoremediation	3

Other Upper Division Courses

Code	Title	Credits
ATS 350	Introduction to Weather and Climate	2
BSPM 308	Ecology and Management of Weeds	3
BSPM 361	Elements of Plant Pathology	3
BSPM 365	Integrated Tree Health Management	4
BSPM 450	Molecular Plant-Microbe Interaction	3
F 311	Forest Ecology	3
F 324	Fire Effects and Adaptations	3
F 325	Silviculture	3
F 421	Ecological Forest Management	3
F 466/HORT 466	Urban and Community Forestry	3
F 510	Ecophysiology of Trees	3
GR 348	Biogeography	3
HORT 401	Medicinal and Value-Added Uses of Plants	3
HORT 476	Environmental Plant Stress Physiology	3
RS 313/F 313	Dendrology and Herbaceous Plant ID	3
RS 331	Wildland Plants and Plant Communities	3
RS 351	Wildland Ecosystems in a Changing World	3
RS 378	Disturbance Ecology	2
RS 420	Grass Taxonomy	3
SOCR 210	Microbiome Roles in a Sustainable Earth (GT-SC2)	3
SOCR 335	Applied Plant Genetics	3
SOCR 375	Soil Biogeochemistry	3
SOCR 440	Pedology	4

SOCR 441	Soil Ecology	3
SOCR 442	Forest and Range Soils	3