

MAJOR IN AGRICULTURAL BIOLOGY, PLANT PATHOLOGY CONCENTRATION

Requirements Effective Fall 2025

Freshman

		AUCC	Credits
AB 120 ^{1,2}	Agricultural Biology--Freshman Orientation		1
AB 130 ^{1,2}	Working with Agricultural Biology Data		1
CHEM 107	Fundamentals of Chemistry (GT-SC2)	3A	4
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)	3A	1
CO 150	College Composition (GT-CO2)	1A	3
Select one group from the following:			8
Group A			
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)	3A	
Group B			
BZ 110	Principles of Animal Biology (GT-SC2)	3A	
BZ 111	Animal Biology Laboratory (GT-SC1)	3A	
BZ 120	Principles of Plant Biology (GT-SC1)	3A	
Select one course from the following:			3-4
ATS 150	Science of Global Climate Change (GT-SC2)	3A	
BSPM 102	Insects, Science, and Society (GT-SC2)	3A	
HORT 100	Horticultural Science	3A	
1C (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		1C	3
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	6

Total Credits

30-31

Sophomore

AB 230 ^{1,2}	Becoming an Agricultural Biology Professional		1
AB 303 ¹	General Entomology Laboratory		2
BSPM 302 ¹	Applied and General Entomology		2
CHEM 245	Fundamentals of Organic Chemistry		4
CHEM 246	Fundamentals of Organic Chemistry Laboratory		1
SPCM 200	Public Speaking		3
Select one course from the following:			3
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)	2	
JTC 300	Strategic Writing and Communication (GT-CO3)	2	
LB 300	Specialized Professional Writing	2	
Select one course from the following:			3
LAND 220/LIFE 220 ¹	Fundamentals of Ecology (GT-SC2)	3A	
LIFE 320 ¹	Ecology		
Select a minimum of 3 credits from the following:			3
MATH 117	College Algebra in Context I (GT-MA1)	1B	
MATH 118	College Algebra in Context II (GT-MA1)	1B	
MATH 120	College Algebra (GT-MA1)	1B	

MATH 124	Logarithmic and Exponential Functions (GT-MA1)	1B	
MATH 155	Calculus for Biological Scientists I (GT-MA1)	1B	
Select one course from the following:			3
STAT 301	Introduction to Applied Statistical Methods		
STAT 307	Introduction to Biostatistics		
Social and Behavioral Sciences (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)			3C 3
Total Credits			28
Junior			
AB 330 ¹	Applications in Agricultural Biology I	4A,4B,4C	2
BSPM 201 or 308	Weed Management and Control Ecology and Management of Weeds		3
BSPM 361 ¹	Elements of Plant Pathology		3
BSPM 487	Internship		3
BZ 220 ¹	Introduction to Evolution		3
SOCR 240 ¹	Introductory Soil Science		4
Select one course from the following:			3-4
BZ 350 ¹	Molecular and General Genetics		
SOCR 330	Principles of Genetics		
Plant Pathology Elective (see list below) ¹			3
Electives			4-5
Total Credits			29
Senior			
AB 410	Understanding Pesticides		3
AB 430 ¹	Applications in Agricultural Biology II	4A,4B,4C	3
AB 451	Integrated Pest Management		3
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)			3D 3
Plant Pathology Electives (see list below) ¹			9
Electives ³			11-12
Total Credits			32-33
Program Total Credits:			120

Plant Pathology Electives

Code	Title	Credits
Select a minimum of 12 credits from the following:		
AB 521	Forest Health Issues	2
AB 555	Topics in Plant Pathology-Plant Virology	2
BSPM 365	Integrated Tree Health Management	4
BSPM 450	Molecular Plant-Microbe Interaction	3
BZ 333	Introductory Mycology	4
BZ 350	Molecular and General Genetics	4
MIP 300	General Microbiology	3
SOCR 455	Microbiomes of Soil Systems	3
Lecture/laboratory combination:		4
MIP 432/ESS 432	Microbial Ecology	
MIP 433/ESS 433	Microbial Ecology Laboratory	

² Transfer students are required to take AB 270 in lieu of AB 120, AB 130, and AB 230.

³ Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).

¹ A minimum grade of 'C' (2.000) must be obtained in this course in order to complete the program.