

MAJOR IN AGRICULTURAL BIOLOGY, WEED SCIENCE CONCENTRATION

To prepare for first semester: The curriculum for the Agricultural Biology major assumes students enter college prepared to take calculus. Entering students who are not prepared to take calculus will need to fulfill pre-calculus requirements in the first semester. Those pre-calculus requirements are listed as benchmark courses in Freshman Semester 1 below.

Major Completion Map

Distinctive Requirements for Degree Program: Each course used to satisfy requirements of the major requires a minimum grade of 'C' (2.000).

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
AB 120	Agricultural Biology–Freshman Orientation	X			1
CO 150	College Composition (GT-CO2)	X		1A	3
1C	(https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		X	1C	3
	Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			3B	6
	MATH 117, MATH 118, MATH 124, MATH 125 may be necessary for some students to fulfill pre-calculus requirements.	X			

Total Credits					13
Semester 2		Critical	Recommended	AUCC	Credits
AB 130	Working with Agricultural Biology Data	X			1
CHEM 107	Fundamentals of Chemistry (GT-SC2)	X		3A	4
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)	X		3A	1
	Select one group from the following:	X			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)	X		3A	
BZ 120	Principles of Plant Biology (GT-SC1)	X		3A	
	Select one course from the following:	X			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	

Total Credits					17-18
Semester 3		Critical	Recommended	AUCC	Credits
AB 230	Becoming an Agricultural Biology Professional	X			1
AB 303	General Entomology Laboratory	X			2
BSPM 302	Applied and General Entomology	X			2
SPCM 200	Public Speaking	X			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:	X			3
LAND 220/ LIFE 220	Fundamentals of Ecology (GT-SC2)			3A	

LIFE 320	Ecology				
Total Credits					14
Semester 4		Critical	Recommended	AUCC	Credits
CHEM 245	Fundamentals of Organic Chemistry	X			4
CHEM 246	Fundamentals of Organic Chemistry Laboratory	X			1
Select a minimum of 3 credits from the following:		X			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:		X			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)		X		3C	3
Total Credits					14
Junior					
Semester 5		Critical	Recommended	AUCC	Credits
BSPM 201 or 308	Weed Management and Control Ecology and Management of Weeds	X			3
BZ 220	Introduction to Evolution	X			3
SOCR 240	Introductory Soil Science	X			4
Select one course from the following:					3-4
BZ 350	Molecular and General Genetics	X			
SOCR 330	Principles of Genetics				
Total Credits					13-14
Semester 6		Critical	Recommended	AUCC	Credits
AB 330	Applications in Agricultural Biology I	X		4A,4B,4C	2
BSPM 361	Elements of Plant Pathology	X			3
BSPM 487	Internship	X			3
Weed Science Electives (see list on Concentration Requirements Tab)			X		3
Electives			X		4-5
Total Credits					15-16
Senior					
Semester 7		Critical	Recommended	AUCC	Credits
AB 410	Understanding Pesticides	X			3
AB 430	Applications in Agricultural Biology II	X		4A,4B,4C	3
Weed Science Electives (see list on Concentration Requirements Tab)			X		3
Electives			X		6-7
Total Credits					15-16
Semester 8		Critical	Recommended	AUCC	Credits
AB 451	Integrated Pest Management	X			3
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		X		3D	3
Weed Science Electives (see list on Concentration Requirements Tab)		X			6
Electives		X			5
The benchmark courses for the 8th semester are the remaining courses in the entire program of study.		X			
Total Credits					17
Program Total Credits:					120