MAJOR IN AGRICULTURAL BIOLOGY

Requirements Effective Spring 2023

Freshman			
		AUCC	Credits
AB 120 ^{1, 2}	Agricultural BiologyFreshman Orientation		1
AB 130 ^{1, 2}	Working with Agricultural Biology Data		1
AREC 202	Agricultural and Resource Economics (GT-SS1)	3C	3
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	
Arts and Humanities (http:/	//catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/	3B	6
#arts-humanities)			
Electives			3
	Total Credits		30
Sophomore			
AB 230 ^{1, 2}	Becoming an Agricultural Biology Professional		1
BSPM 302 ¹	Applied and General Entomology		2
CHEM 245	Fundamentals of Organic Chemistry		4
CHEM 246	Fundamentals of Organic Chemistry Laboratory		1
MATH 155	Calculus for Biological Scientists I (GT-MA1)	1B	4
SPCM 200	Public Speaking		3
Select one course from the	following:		1-2
BSPM 303A ¹	Entomology Laboratory: General		
BSPM 303B ¹	Entomology Laboratory: Horticultural		
BSPM 303C ¹	Entomology Laboratory: Agricultural		
Select one course from the	following:		3
LAND 220/LIFE 220 ¹	Fundamentals of Ecology (GT-SC2)	3A	
LIFE 320 ¹	Ecology		
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
AGRI 116/IE 116	Plants and Civilizations (GT-SS3)	1C	
HORT 171/SOCR 171	Environmental Issues in Agriculture (GT-SS3)	1C	
SOC 220	Environment, Food, and Social Justice (GT-SS3)	1C	
Select one course from the	following:		3

Introduction to Applied Statistical Meth	nods
--	------

Introduction to Biostatistics	istics
-------------------------------	--------

	Program Total Credits:		120
	Total Credits		31-32
Electives ³			10-11
	Electives (see list below) ¹		9
AGED 210	History of Agriculture in the United States	3D	3
AB 451	Integrated Pest Management		3
AB 430 ¹	Applications in Agricultural Biology II	4A,4B,4C	3
AB 410	Understanding Pesticides		3
Senior			
	Total Credits		30
Electives			5
Agricultural Biology I	Elective (see list below) 1		3
SOCR 240 ¹	Introductory Soil Science		4
BZ 350 ¹	Molecular and General Genetics		4
BZ 220 ¹	Introduction to Evolution		3
BSPM 487	Internship		3
BSPM 361 ¹	Elements of Plant Pathology		3
BSPM 308 ¹	Ecology and Management of Weeds		3
AB 330 ¹	Applications in Agricultural Biology I	4A,4B,4C	2
Junior			
	Total Credits		28-29
STAT 307	Introduction to Biostatistics		

Agricultural Biology Electives

Code	Title	Credits
Select a minimum of	one course from each group for a minimum	
of 12 credits:		

or 12 credits.		
Group 1: General and	Plant	
BC 351	Principles of Biochemistry	4
BZ 223	Plant Identification	3
BZ 331	Developmental Plant Anatomy	4
BZ 338	Comparative Morphology of Vascular Plants	4
BZ 440	Plant Physiology	3
BZ 450	Plant Ecology	4
HORT 221	Landscape Plants	4
HORT 231	Landscape Graphics Studio	4
HORT 232	Principles of Landscape Design	4
HORT 260	Plant Propagation	4
HORT 3XX		
HORT 4XX		
SOCR 460/HORT 460	Plant Breeding and Biotechnology	3
Group 2: Plant Patho	logy	
AB 521	Forest Health Issues	2
AB 555	Topics in Plant PathologyPlant Virology	2
BSPM 365	Integrated Tree Health Management	4
BSPM 450	Molecular Plant-Microbe Interaction	3
BZ 333	Introductory Mycology	4
MIP 300	General Microbiology	3

MIP 432/ESS 432	Microbial Ecology	
MIP 433/ESS 433	Microbial Ecology Laboratory	
Lecture/laboratory co	ombination:	4
SOCR 455	Microbiomes of Soil Systems	
SOCR 456	Soil Microbiology Laboratory	
Group 3: Entomology		
AB 340	Insect Biotechnology	3
BSPM 423	Evolution and Classification of Insects	3
BSPM 445	Aquatic Insects	4

4

5

Lecture/laboratory combination:

MIP 462

BSPM 462/BZ 462/ Parasitology and Vector Biology

 $^{^{1}\,\,}$ A minimum grade of 'C' (2.000) must be obtained in this course in order to complete the program.

Transfer students are required to take AB 270 in lieu of AB 120, AB 130,

 $^{^{\}rm 3}$ and AB 230. Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).