

# MAJOR IN AGRICULTURAL BIOLOGY, PLANT PATHOLOGY CONCENTRATION

## Requirements Effective Fall 2021

### Freshman

		AUCC	Credits
AB 120 <sup>1,2</sup>	Agricultural Biology--Freshman Orientation		1
AB 130 <sup>1,2</sup>	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 ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )			6
Electives			3
<b>Total Credits</b>			<b>30</b>

### Sophomore

AB 230 <sup>1,2</sup>	Becoming an Agricultural Biology Professional		1
BSPM 302 <sup>1</sup>	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 <sup>1</sup>	Entomology Laboratory: General		
BSPM 303B <sup>1</sup>	Entomology Laboratory: Horticultural		
BSPM 303C <sup>1</sup>	Entomology Laboratory: Agricultural		
Select one course from the following:			3
LAND 220/LIFE 220 <sup>1</sup>	Fundamentals of Ecology (GT-SC2)	3A	
LIFE 320 <sup>1</sup>	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)	3E	
HORT 171/SOCR 171	Environmental Issues in Agriculture (GT-SS3)	3E	

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SOC 220	Environment, Food, and Social Justice (GT-SS3)	3E	
Select one course from the following:			3
STAT 301	Introduction to Applied Statistical Methods		
STAT 307	Introduction to Biostatistics		
<b>Total Credits</b>			<b>28-29</b>
<b>Junior</b>			
AB 330 <sup>1</sup>	Applications in Agricultural Biology I	4A,4B,4C	2
BSPM 308 <sup>1</sup>	Ecology and Management of Weeds		3
BSPM 361 <sup>1</sup>	Elements of Plant Pathology		3
BSPM 487	Internship		3
BZ 220 <sup>1</sup>	Introduction to Evolution		3
BZ 350 <sup>1</sup>	Molecular and General Genetics		4
SOCR 240 <sup>1</sup>	Introductory Soil Science		4
Plant Pathology Elective (see list below) <sup>1</sup>			3
Electives			5
<b>Total Credits</b>			<b>30</b>
<b>Senior</b>			
AB 310 <sup>1</sup>	Understanding Pesticides		3
AB 430 <sup>1</sup>	Applications in Agricultural Biology II	4A,4B,4C	3
AGED 210	History of Agriculture in the United States	3D	3
BSPM 451 <sup>1</sup>	Integrated Pest Management		3
Plant Pathology Electives (see list below) <sup>1</sup>			9
Electives <sup>3</sup>			10-11
<b>Total Credits</b>			<b>31-32</b>
<b>Program Total Credits:</b>			<b>120</b>

### Plant Pathology Electives

Code	Title	Credits
Select a minimum of 12 credits from the following:		
BSPM 365	Integrated Tree Health Management	4
BSPM 450	Molecular Plant-Microbe Interaction	3
BSPM 521	Forest Health Issues	3
BZ 333	Introductory Mycology	4
BZ 350	Molecular and General Genetics	4
MIP 300	General Microbiology	3
Lecture/laboratory combination:		4
MIP 432/ESS 432	Microbial Ecology	
MIP 433/ESS 433	Microbial Ecology Laboratory	
Lecture/laboratory combination:		4
SOCR 455	Soil Microbiology	
SOCR 456	Soil Microbiology Laboratory	

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

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

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