

B.S. in Agricultural Biology

<i>AUCC Requirements:</i>		<i>Credits</i>	<i>Departmental Requirements:</i>		<i>Credits</i>
1A	Intermediate writing (CO150)	3	Cohort Program ^a		8
1B	Mathematics (MATH 155)	4	Professional Development ^b		6
2	Advanced writing (CO301B or JTC300 or LB300)	3	<i>Chemistry Requirement</i>		
3A	Biological Sciences (LIFE 102 &103 or BZ110/111 & 120)	8	- Inorganic Chemistry (CHEM 107/108)		5
3B	Arts & Humanities	6	- Fundamentals of Organic Chemistry/ Lab (CHEM 245/246)		4
3C	Social & Behavioral Sciences (AREC 202)	3	<i>Statistics Requirement - Choose one:</i>		3
3D	Historical Perspectives (AGED 210)	3	- STAT 301		
3E	Global & Cultural Awareness (AGRI/IE116, SOCR/HORT171, SOCR 220)	3	- OR STAT 307		
Concentrations					39 - 42
Open Electives					19 - 22
TOTAL CREDIT HOURS					120

^a **Cohort Program** (required for all students, except transfer students will take AB 270 in lieu of AB 120, AB 130, AND AB 230)

AB	120	Agricultural Biology: Freshman Orientation	1
AB	130	Working with Agricultural Biology Data	1
AB	230	Becoming an Agricultural Biology Professional	1
AB	330	Applications in Agricultural Biology I	2
AB	430	Applications in Agricultural Biology II	3

^b **Professional Development**

SPCM	200	Public Speaking	3
BSPM	487	Internship	3

Agricultural Biology Major Requirements (Not pursuing a Concentration) (29 – 30 Credits):

BSPM	308	Ecology & Management of Weeds	3
BSPM	310	Understanding Pesticides	3
BSPM	361	Elements of Plant Pathology	3
BSPM	451	Integrated Pest management	3
SOCR	240	Introductory Soil Science	4
BZ	220	Introduction to Evolution	3
BZ	350	Molecular & General Genetics	4
BSPM	302	Applied & General Entomology	2

Entomology Lab – Choose one of the following

BSPM	303A	Entomology Laboratory: General	2
BSPM	303B	Entomology Laboratory: Horticultural	1
BSPM	303C	Entomology Laboratory: Agricultural	1

Ecology Selection - Choose one option

LAND/LIFE	220	Fundamentals of Ecology	3
LIFE	320	Ecology	3

Agricultural Biology Major Electives (Not pursuing a Concentration) (enough to bring total in major requirements to 39 credits)

Choose only one course from each group:

Group 1: General & Plant		Group 2: Plant Pathology		Group 3: Entomology	
BC 351	Principles of Biochemistry (4)	MIP 300	General Microbiology (3)	BZ/SOCR 416	Pollination Biology & Management (3)
BZ 223	Plant identification (3)	BZ 333	Introductory Mycology (4)	BSPM 423	Evolution and Classification of Insects (3)
BZ 331	Developmental Plant Anatomy (4)	SOCR 455/456	Soil Microbiology (3+1)	BSPM 445	Aquatic Insects (4)
BZ 338	Comparative Morphology of Vascular Plants (4)	BSPM 365	Integrated Tree Health Management (4)	BSPM 462	Parasitology and Vector Biology (5)
BZ 440	Plant Physiology (3)	MIP 432/433	Microbial Ecology (3+1)		
BZ 450	Plant Ecology (4)	BSPM 450	Molecular Plant-Microbe Interaction (3)		
SOCR 460	Plant Breeding	BSPM 521	Forest Health Issues (3)		
HORT 2XX	Courses of 4 or more credits				
HORT 3XX	Various courses				
HORT 4XX	Various courses				

Concentration in Plant Pathology**Major Requirements (29 – 30 Credits):**

BSPM	308	Ecology & Management of Weeds	3
BSPM	310	Understanding Pesticides	3
BSPM	361	Elements of Plant Pathology	3
BSPM	451	Integrated Pest management	3
SOCR	240	Introductory Soil Science	4
BZ	220	Introduction to Evolution	3
BZ	350	Molecular & General Genetics	4
BSPM	302	Applied & General Entomology	2
<i>Entomology Lab – Choose one of the following</i>			
BSPM	303A	Entomology Laboratory: General	2
BSPM	303B	Entomology Laboratory: Horticultural	1
BSPM	303C	Entomology Laboratory: Agricultural	1
<i>Ecology Selection - Choose one option</i>			
LAND/LIFE	220	Fundamentals of Ecology	3
LIFE	320	Ecology	3

Concentration in Plant Pathology Electives (Choose a minimum of 12 credits from the following)

MIP	300	General Microbiology	3
BZ	333	Introductory Mycology	4
SOCR	455/456	Soil Microbiology	3+1
BSPM	365	Integrated Tree Health Management	4
ESS/MIP	432/433	Microbial Ecology	3+1
BSPM	450	Molecular Plant-Microbe Interactions	3
BSPM	521	Forest Health Issues	3

Concentration in Entomology**Major Requirements (29 – 30 Credits):**

BSPM	308	Ecology & Management of Weeds	3
BSPM	310	Understanding Pesticides	3
BSPM	361	Elements of Plant Pathology	3
BSPM	451	Integrated Pest Management	3
SOCR	240	Introductory Soil Science	4
BZ	220	Introduction to Evolution	3
BZ	350	Molecular & General Genetics	4
BSPM	302	Applied & General Entomology	2
<i>Entomology Lab – Choose one of the following</i>			
BSPM	303A	Entomology Laboratory: General	2
BSPM	303B	Entomology Laboratory: Horticultural	1
BSPM	303C	Entomology Laboratory: Agricultural	1
<i>Ecology Selection - Choose one option</i>			
LAND/LIFE	220	Fundamentals of Ecology	3
LIFE	320	Ecology	3

Concentration in Entomology Electives (Choose a minimum of 12 credits from the following)

BZ/SOCR	416	Pollination Biology and Management	3
BSPM	423	Evolution and Classification of Insects	3
BSPM	445	Aquatic Insects	4
BSPM	462	Parasitology and Vector Biology	4

Concentration in Weed Science**Major Requirements** (29 – 30 Credits):

BSPM	308	Ecology & Management of Weeds	3
BSPM	310	Understanding Pesticides	3
BSPM	361	Elements of Plant Pathology	3
BSPM	451	Integrated Pest management	3
SOCR	240	Introductory Soil Science	4
BZ	220	Introduction to Evolution	3
BZ	350	Molecular & General Genetics	4
BSPM	302	Applied & General Entomology	2

Entomology Lab – Choose one of the following

BSPM	303A	Entomology Laboratory: General	2
BSPM	303B	Entomology Laboratory: Horticultural	1
BSPM	303C	Entomology Laboratory: Agricultural	1

Ecology Selection - Choose one option

LAND/LIFE	220	Fundamentals of Ecology	3
LIFE	320	Ecology	3

Concentration in Weed Science Electives (Choose a minimum of 12 credits from the following)

BZ	223	Plant identification	3
BZ	331	Developmental Plant Anatomy	4
BZ	338	Comparative Morphology of Vascular Plants	4
BC	351	Principles of Biochemistry	4
BZ	440	Plant Physiology	3
BZ	450	Plant Ecology	4
HORT	221	Landscape Plants	4
HORT	341	Turfgrass Management	3
HORT	464A	Arboriculture	3