

# MAJOR IN SOIL AND CROP SCIENCES, AGRONOMIC PRODUCTION MANAGEMENT CONCENTRATION

## Major Completion Map

### Freshman

Semester 1	Critical	Recommended	AUCC	Credits
Select one course from the following:				1
AGRI 192 Orientation to Agricultural Systems				
AGRI 292 Transfer Seminar				
BZ 120 Principles of Plant Biology (GT-SC1)			3A	4
CO 150 College Composition (GT-CO2)			1A	3
MATH 117 College Algebra in Context I (GT-MA1)	X		1B	1
MATH 118 College Algebra in Context II (GT-MA1)	X		1B	1
MATH 124 Logarithmic and Exponential Functions (GT-MA1)	X		1B	1
SOCR 100 General Crops				4
<b>Total Credits</b>				<b>15</b>

Semester 2	Critical	Recommended	AUCC	Credits
AREC 202 Agricultural and Resource Economics (GT-SS1)			3C	3
CHEM 107 Fundamentals of Chemistry (GT-SC2)	X		3A	4
CHEM 108 Fundamentals of Chemistry Laboratory (GT-SC1)			3A	1
Historical Perspectives ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives</a> )			3D	3
Electives				4
CO 150 and AUCC 1B (Quantitative Reasoning) must be completed by the end of Semester 2.	X			
<b>Total Credits</b>				<b>15</b>

### Sophomore

Semester 3	Critical	Recommended	AUCC	Credits
BZ 223 Plant Identification				3
LAND 220/ LIFE 220 Fundamentals of Ecology (GT-SC2)			3A	3
PH 110 Physics of Everyday Phenomena (GT-SC2)			3A	3
Diversity and Global Awareness ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-global-awareness">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-global-awareness</a> )			3E	3
Elective				3
<b>Total Credits</b>				<b>15</b>

Semester 4	Critical	Recommended	AUCC	Credits
PHIL 110 Logic and Critical Thinking (GT-AH3)			3B	3
SOCR 240 Introductory Soil Science	X			4
SPCM 200 Public Speaking				3
Electives				5
<b>Total Credits</b>				<b>15</b>

### Junior

Semester 5	Critical	Recommended	AUCC	Credits
Select one course from the following:				3
BUS 300 Business Writing and Communication (GT-CO3)			2	

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CO 300	Writing Arguments (GT-CO3)			2	
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
SOCR 330	Principles of Genetics	X			3
SOCR 350	Soil Fertility Management				3
SOCR 351	Soil Fertility Laboratory				1
Agricultural and Resource Economics Elective (See List on Concentration Requirements Tab)					3
Department Elective (See List on Concentration Requirements Tab)					3
<b>Total Credits</b>					<b>16</b>
<b>Semester 6</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
BZ 440	Plant Physiology				3
BZ 441	Plant Physiology Laboratory				2
SOCR 370	Climate-Smart Irrigation Principles				2
Select one course from the following:					3
STAT 201	General Statistics (GT-MA1)			1B	
STAT 301	Introduction to Applied Statistical Methods				
STAT 307	Introduction to Biostatistics				
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> )					3
Department Elective (See List on Concentration Requirements Tab)					3
<b>Total Credits</b>					<b>16</b>
<b>Senior</b>					
<b>Semester 7</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
BSPM 302	Applied and General Entomology	X			2
BSPM 303C	Entomology Laboratory: Agricultural	X			1
BSPM 308	Ecology and Management of Weeds	X			3
SOCR 371	Irrigation of Field Crops	X			1
SOCR 377	Geographic Information Systems in Agriculture	X			3
SOCR 421	Agroecosystem Management	X		4A,4B,4C	4
SOCR 492	Preparing for Impact–Your Career Journey	X		4A	1
<b>Total Credits</b>					<b>15</b>
<b>Semester 8</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
BSPM 361	Elements of Plant Pathology	X			3
Select two courses from the following:					6-7
SOCR 320	Sustainable Forage Management for Livestock				
SOCR 322	Principles of Microclimatology				
SOCR 430					
SOCR 440	Pedology				
SOCR 455	Microbiomes of Soil Systems				
SOCR 460/ HORT 460	Plant Breeding and Biotechnology				
Select one course from the following:					1
SOCR 486	Practicum	X			
SOCR 487	Internship				
Agricultural and Resource Economics Elective (See List on Concentration Requirements Tab)					3
Department Elective (See List on Concentration Requirements Tab)					0-4
The benchmark courses for the 8th semester are the remaining courses in the entire program of study.					
<b>Total Credits</b>					<b>13-17</b>
<b>Program Total Credits:</b>					<b>120-124</b>