

MAJOR IN SOIL AND CROP SCIENCES, SUSTAINABLE AGRICULTURAL MANAGEMENT CONCENTRATION

Major Completion Map

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
AGRI 100	Contemporary Agricultural Systems	X			1
CO 150	College Composition (GT-CO2)	X		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	X			4
SOCR 171/ HORT 171	Environmental Issues in Agriculture (GT-SS3)	X		1C	3
Total Credits					14

Semester 2		Critical	Recommended	AUCC	Credits
AREC 202	Agricultural and Resource Economics (GT-SS1)	X		3C	3
BZ 120	Principles of Plant Biology (GT-SC1)	X		3A	4
CHEM 107	Fundamentals of Chemistry (GT-SC2)	X		3A	4
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)	X		3A	1
SOCR 193	Introductory Seminar	X			1
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)			X	1C	3
CO 150 and AUCC 1B (Quantitative Reasoning) must be completed by the end of Semester 2.		X			
Total Credits					16

Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
LAND 220/ LIFE 220	Fundamentals of Ecology (GT-SC2)	X		3A	3
SOCR 221	Crop Production Systems	X			1
Select one course from the following:		X			3
STAT 201	General Statistics (GT-MA1)			1B	
STAT 301	Introduction to Applied Statistical Methods				
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	6
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)			X	3C	3
Total Credits					16

Semester 4		Critical	Recommended	AUCC	Credits
SOCR 210	Microbiome Roles in a Sustainable Earth (GT-SC2)	X		3A	3
SOCR 240	Introductory Soil Science	X			4
Select one course from the following:		X			4
NR 319	Geospatial Applications in Natural Resources				
NR 322	Intro. to Geographic Information Systems				

Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		X	3D	3
Total Credits				14
Junior				
Semester 5				
Select 2 of the following courses:		X		4-7
SOCR 330	Principles of Genetics			
SOCR 343	Composting Principles and Practices			
SOCR 400	Soils and Global Change--Science and Impacts			
SOCR 440	Pedology			
SOCR 455	Soil Microbiology			
Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)			X 2	3
Upper-Division Electives			X	4-7
Total Credits				14
Semester 6				
		Critical	Recommended	AUCC
				Credits
BZ 440	Plant Physiology	X		3
SOCR 320	Forage and Pasture Management	X		3
SOCR 350	Soil Fertility Management	X		3
SOCR 351	Soil Fertility Laboratory	X		1
SOCR 405/ ESS 405	Global Agriculture and Environmental Change	X		3
Select one course from the following:		X		3
BSPM 361	Elements of Plant Pathology			
SOCR 322	Principles of Microclimatology			
SOCR 441	Soil Ecology			
SOCR 442	Forest and Range Soils			
SOCR 424/ HORT 424	Topics in Organic Agriculture			
SOCR 460/ HORT 460	Plant Breeding and Biotechnology			
Total Credits				16
Senior				
Semester 7				
		Critical	Recommended	AUCC
				Credits
BSPM 302	Applied and General Entomology	X		2
BSPM 308	Ecology and Management of Weeds	X		3
SOCR 371	Irrigation of Field Crops	X		1
SOCR 421	Agroecosystem Management	X		4A,4B,4C
SOCR 492	Preparing for Impact--Your Career Journey	X		4A,4C
Select one course from the following:		X		1-2
BSPM 303A	Entomology Laboratory: General			
BSPM 303B	Entomology Laboratory: Horticultural			
BSPM 303C	Entomology Laboratory: Agricultural			
Select one course from the following:		X		1-4
SOCR 330	Principles of Genetics			
SOCR 343	Composting Principles and Practices			
SOCR 400	Soils and Global Change--Science and Impacts			
SOCR 440	Pedology			
SOCR 442	Forest and Range Soils			
SOCR 460/ HORT 460	Plant Breeding and Biotechnology			
Total Credits				13

Semester 8		Critical	Recommended	AUCC	Credits
SOCR 425	Internet of Ag Things--Sensors and Data Lab	X			2
Select 2 of the following courses:		X			6
BSPM 361	Elements of Plant Pathology				
SOCR 322	Principles of Microclimatology				
SOCR 424/ HORT 424	Topics in Organic Agriculture				
SOCR 441	Soil Ecology				
SOCR 442	Forest and Range Soils				
SOCR 460/ HORT 460	Plant Breeding and Biotechnology				
Select one course from the following:		X			1
SOCR 486	Practicum			4C	
SOCR 487	Internship				
Upper-Division Electives			X		4-8
Total Credits					17
Program Total Credits:					120