

MAJOR IN SOIL AND CROP SCIENCES, SUSTAINABLE AGRICULTURAL MANAGEMENT CONCENTRATION

Requirements Effective Fall 2022

Freshman

		AUCC	Credits
AGRI 100	Contemporary Agricultural Systems		1
AREC 202	Agricultural and Resource Economics (GT-SS1)	3C	3
BZ 120	Principles of Plant Biology (GT-SC1)	3A	4
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
MATH 117	College Algebra in Context I (GT-MA1)	1B	1
MATH 118	College Algebra in Context II (GT-MA1)	1B	1
MATH 124	Logarithmic and Exponential Functions (GT-MA1)	1B	1
SOCR 100	General Crops		4
SOCR 171/HORT 171	Environmental Issues in Agriculture (GT-SS3)	1C	3
SOCR 193	Introductory Seminar		1
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		1C	3
Total Credits			30

Sophomore

LAND 220/LIFE 220	Fundamentals of Ecology (GT-SC2)	3A	3
SOCR 210	Microbiome Roles in a Sustainable Earth (GT-SC2)	3A	3
SOCR 221	Crop Production Systems		1
SOCR 240	Introductory Soil Science		4
Select one course from the following:			4
NR 319	Geospatial Applications in Natural Resources		
NR 322	Intro. to Geographic Information Systems		
Select one course from the following:			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)		3B	6
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)		3C	3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
Total Credits			30

Junior

BZ 440	Plant Physiology		3
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SOCR 320	Forage and Pasture Management		3
SOCR 350	Soil Fertility Management		3
SOCR 351	Soil Fertility Laboratory		1
SOCR 405/ESS 405	Global Agriculture and Environmental Change		3
Select one course from the following:			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		
Select 2 of the following courses:			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)		2	3
Upper-Division Electives			4-7
Total Credits			30
Senior			
BSPM 302	Applied and General Entomology		2
BSPM 308	Ecology and Management of Weeds		3
SOCR 371	Irrigation of Field Crops		1
SOCR 421	Agroecosystem Management	4A,4B,4C	4
SOCR 425	Internet of Ag Things–Sensors and Data Lab		2
SOCR 492	Preparing for Impact–Your Career Journey	4A,4C	1
Select one course from the following:			1-2
BSPM 303A	Entomology Laboratory: General		
BSPM 303B	Entomology Laboratory: Horticultural		
BSPM 303C	Entomology Laboratory: Agricultural		
Select one course from the following:			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 455	Soil Microbiology		
Select 2 of the following courses:			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:			1
SOCR 486	Practicum	4C	
SOCR 487	Internship		

Upper-Division Electives ¹	4-8
Total Credits	30
Program Total Credits:	120

¹ Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).