MAJOR IN SOIL AND CROP SCIENCES, SUSTAINABLE AGRICULTURAL MANAGEMENT CONCENTRATION

Requirements
Effective Fall 2023

Freshman

		AUCC	Credits
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 193	Pathways to Success		1
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		1C	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	3
General Elective			1
	Total Credits		**30**

Sophomore

LAND 220/LIFE 220	Fundamentals of Ecology (GT-SC2)	3A	3
NR 319	Introduction to Geospatial Science		4
SOCR 210	Microbiome Roles in a Sustainable Earth (GT-SC2)	3A	3
SOCR 221	Cropping Systems Field Experience		1
SOCR 240	Introductory Soil Science		4
Select one course from the following:			3
BSPM 201	Weed Management and Control		
BSPM 308	Ecology and Management of Weeds		
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	3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
General Elective			3
	Total Credits		**30**

Junior

BZ 440	Plant Physiology		3
SOCR 330	Principles of Genetics		3
SOCR 350	Soil Fertility Management		3
SOCR 351	Soil Fertility Laboratory		1
SOCR 370	Climate-Smart Irrigation Principles		2
SOCR 405/ESS 405	Global Agriculture and Environmental Change		3
Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)		2	3
Technical Electives [1]			4-6
Upper-Division Electives[2]			6-8
	Total Credits		**30**

Senior

AB 451	Integrated Pest Management		3
BSPM 302	Applied and General Entomology		2
BSPM 303A	Entomology Laboratory: General		2
SOCR 371	Climate-Smart Irrigation Management		1
SOCR 425	Internet of Ag Things--Sensors and Data Lab		2
SOCR 492	Preparing for Impact--Your Career Journey	4A,4C	1
Choose one of the following:			3-4
SOCR 421	Agroecosystem Management	4A,4B,4C	
SOCR 460/HORT 460	Plant Breeding and Biotechnology	4A,4B,4C	
Select one course from the following:			1
SOCR 486	Practicum	4C	
SOCR 487	Internship		
Techical Electives[1]			7-9
Upper-Division Electives[2]			5-8
	Total Credits		**30**
	Program Total Credits:		**120**

Technical Electives

Code	Title	Credits
BSPM 361	Elements of Plant Pathology	3
SOCR 320	Sustainable Forage Management for Livestock	3
SOCR 322	Principles of Microclimatology	3
SOCR 343	Composting Principles and Practices	1
SOCR 400	Soils and Global Change-Impacts and Solutions	3
SOCR 424/HORT 424	Topics in Organic Agriculture	3
SOCR 441	Soil Ecology	3
SOCR 442	Forest and Range Soils	3
SOCR 455	Microbiomes of Soil Systems	3

[1] Select from list of technical electives.

[2] 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).