

MAJOR IN SOIL AND CROP SCIENCES, SOIL SCIENCE AND ENVIRONMENTAL SOLUTIONS CONCENTRATION

Requirements Effective Fall 2022

Freshman

		AUCC	Credits
CHEM 111	General Chemistry I (GT-SC2)	3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	3A	1
CO 150	College Composition (GT-CO2)	1A	3
LIFE 102 or BZ 120	Attributes of Living Systems (GT-SC1) Principles of Plant Biology (GT-SC1)	3A	4
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	Introduction to Crop Science		4
SOCR 171/HORT 171	Environmental Issues in Agriculture (GT-SS3)	1C	3
SOCR 193	Pathways to Success		1
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
General Electives			4
Total Credits			30

Sophomore

CHEM 113	General Chemistry II		3
GEOL 120	Geology and Society (GT-SC2)	3A	3
GEOL 121	Experiential Geoscience Laboratory (GT-SC1)	3A	1
LAND 220/LIFE 220	Fundamentals of Ecology (GT-SC2)	3A	3
Select one course from the following:			3-4
NR 319	Introduction to Geospatial Science		
SOCR 377/AB 377	Geographic Information Systems in Agriculture		
SOCR 210	Microbiome Roles in a Sustainable Earth (GT-SC2)	3A	3
SOCR 240	Introductory Soil Science		4
SOCR 221	Cropping Systems Field Experience		1
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	6
Social and Behavioral Sciences (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)		3C	3
Total Credits			30

Junior

SOCR 350	Soil Fertility Management		3
SOCR 351	Soil Fertility Laboratory		1
SOCR 375	Soil Biogeochemistry		3
SOCR 405/ESS 405	Global Agriculture and Environmental Change		3
SOCR 440	Pedology		4

SOCR 455	Microbiomes of Soil Systems		3
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		
Advanced Writing (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)			2
Upper-Division Electives			7
Total Credits			30
Senior			
RS 478	Ecological Restoration		3
SOCR 400	Soils and Global Change-Impacts and Solutions	4A,4B,4C	3
SOCR 441	Soil Ecology		3
SOCR 467	Soil and Environmental Chemistry		3
SOCR 470	Soil Physics		3
SOCR 471	Soil Physics Laboratory		1
SOCR 486	Practicum	4C	1
SOCR 492	Preparing for Impact--Your Career Journey	4A,4C	1
Upper-Division Electives			12
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).