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

Major Completion Map

Freshman					
Semester 1		**Critical**	**Recommended**	**AUCC**	**Credits**
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	Introduction to Crop Science	X			4
SOCR 171/ HORT 171	Environmental Issues in Agriculture (GT-SS3)	X		1C	3
General Elective			X		2
	Total Credits				**15**
Semester 2		**Critical**	**Recommended**	**AUCC**	**Credits**
CHEM 111	General Chemistry I (GT-SC2)	X		3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	X		3A	1
LIFE 102 or BZ 120	Attributes of Living Systems (GT-SC1) Principles of Plant Biology (GT-SC1)	X		3A	4
SOCR 193	Pathways to Success	X			1
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)			X	3D	3
General Elective			X		2
AUCC 1B must be completed by the end of Semester 2.		X			
	Total Credits				**15**
Sophomore					
Semester 3		**Critical**	**Recommended**	**AUCC**	**Credits**
CHEM 113	General Chemistry II	X			3
LAND 220/ LIFE 220	Fundamentals of Ecology (GT-SC2)	X		3A	3
Select one course from the following:					3-4
NR 319	Introduction to Geospatial Science	X			
SOCR 377/ AB 377	Geographic Information Systems in Agriculture				
SOCR 221	Cropping Systems Field Experience	X			1
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
	Total Credits				**13**
Semester 4		**Critical**	**Recommended**	**AUCC**	**Credits**
GEOL 120	Geology and Society (GT-SC2)	X		3A	3
GEOL 121	Experiential Geoscience Laboratory (GT-SC1)	X		3A	1
SOCR 210	Microbiome Roles in a Sustainable Earth (GT-SC2)	X		3A	3
SOCR 240	Introductory Soil Science	X			4
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B,4B	3

Social and Behavioral Sciences (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)			X	3C	3
	Total Credits				**17**
Junior					
Semester 5		**Critical**	**Recommended**	**AUCC**	**Credits**
SOCR 440	Pedology	X			4
SOCR 455	Microbiomes of Soil Systems	X			3
Select one course from the following:		X			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)			X	2	3
Upper-Division Electives			X		3
	Total Credits				**16**
Semester 6		**Critical**	**Recommended**	**AUCC**	**Credits**
SOCR 350	Soil Fertility Management	X			3
SOCR 351	Soil Fertility Laboratory	X			1
SOCR 375	Soil Biogeochemistry	X			3
SOCR 405/ ESS 405	Global Agriculture and Environmental Change	X			3
Upper-Division Electives			X		4
	Total Credits				**14**
Senior					
Semester 7		**Critical**	**Recommended**	**AUCC**	**Credits**
SOCR 400	Soils and Global Change-Impacts and Solutions	X		4A,4B,4C	3
SOCR 470	Soil Physics	X			3
SOCR 471	Soil Physics Laboratory	X			1
SOCR 486	Practicum	X		4C	1
SOCR 492	Preparing for Impact--Your Career Journey	X		4A,4C	1
Upper-Division Electives			X		6
LAND 220 / LIFE 220 must be completed by the end of Semester 7.		X			
	Total Credits				**15**
Semester 8		**Critical**	**Recommended**	**AUCC**	**Credits**
RS 478	Ecological Restoration	X			3
SOCR 441	Soil Ecology	X			3
SOCR 467	Soil and Environmental Chemistry	X			3
Upper-Division Electives			X		6
The benchmark courses for the 8th semester are the remaining courses in the entire program of study		X			
	Total Credits				**15**
	Program Total Credits:				**120**