

MAJOR IN SOIL AND CROP SCIENCES, SOIL ECOLOGY CONCENTRATION

Major Completion Map

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
AGRI 192	Orientation to Agricultural Systems				1
CHEM 111	General Chemistry I (GT-SC2)	X		3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)			3A	1
CO 150	College Composition (GT-CO2)			1A	3
MATH 155	Calculus for Biological Scientists I (GT-MA1)	X		1B	4
SOCR 100	General Crops	X			4
Total Credits					17

Semester 2		Critical	Recommended	AUCC	Credits
Select one course from the following:					3
AREC 202	Agricultural and Resource Economics (GT-SS1)			3C	
AREC 240/ ECON 240	Issues in Environmental Economics (GT-SS1)			3C	
CHEM 113	General Chemistry II	X			3
CHEM 114	General Chemistry Lab II				1
LIFE 102	Attributes of Living Systems (GT-SC1)			3A	4
PHIL 110	Logic and Critical Thinking (GT-AH3)			3B	3
CO 150 and AUCC 1B (Quantitative Reasoning) must be completed by the end of Semester 2.					X
Total Credits					14

Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
CHEM 245	Fundamentals of Organic Chemistry				4
CHEM 246	Fundamentals of Organic Chemistry Laboratory				1
Select one course from the following:					3
LAND 220/ LIFE 220	Fundamentals of Ecology (GT-SC2)			3A	
LIFE 320	Ecology				
SOCR 240	Introductory Soil Science	X			4
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)					3B
Total Credits					15

Semester 4		Critical	Recommended	AUCC	Credits
GEOL 120	Exploring Earth - Physical Geology (GT-SC2)			3A	3
GEOL 121	Introductory Geology Laboratory (GT-SC1)			3A	1
PH 121	General Physics I (GT-SC1)			3A	5
SPCM 200	Public Speaking				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				
CHEM 245 must be completed by the end of Semester 4.					X
Total Credits					15

Junior					
Semester 5		Critical	Recommended	AUCC	Credits
BC 351	Principles of Biochemistry				4
SOCR 440	Pedology				4
Select one course from the following:					3-4
NR 319	Geospatial Applications in Natural Resources				
NR 322	Intro. to Geographic Information Systems				
SOCR 377	Geographic Information Systems in Agriculture				
Diversity and Global Awareness (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-global-awareness)				3E	3
Total Credits					14
Semester 6		Critical	Recommended	AUCC	Credits
Select one course from the following:					3
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
SOCR 322	Principles of Microclimatology				3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)				3D	3
Technical Electives (See Department List on Concentration Requirements tab)					6
Total Credits					15
Senior					
Semester 7		Critical	Recommended	AUCC	Credits
SOCR 421	Agroecosystem Management	X		4A,4B,4C	4
SOCR 455	Microbiomes of Soil Systems	X			3
SOCR 456	Soil Microbiology Laboratory	X			1
SOCR 470	Soil Physics	X			3
SOCR 471	Soil Physics Laboratory	X			1
SOCR 492	Preparing for Impact–Your Career Journey	X		4A	1
Technical Elective (See Department List on Concentration Requirements tab)					3
Total Credits					16
Semester 8		Critical	Recommended	AUCC	Credits
SOCR 441	Soil Ecology	X		4C	3
Select one course from the following:					1
SOCR 486	Practicum				
SOCR 487	Internship				
Technical Electives (See Department List on Concentration Requirements tab)					10
The benchmark courses for the 8th semester are the remaining courses in the entire program of study.					
Total Credits					14
Program Total Credits:					120