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31-32

MAJOR IN SOIL AND CROP SCIENCES, PLANT BIOTECHNOLOGY CONCENTRATION

Total Credits

Requirements Effective Fall 2023

Freshman			
		AUCC	Credits
AGRI 100	Contemporary Agricultural Systems		1
BZ 120	Principles of Plant Biology (GT-SC1)	3A	4
CHEM 111	General Chemistry I (GT-SC2)	3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	3A	1
CHEM 113	General Chemistry II		3
CHEM 114	General Chemistry Lab II		1
CO 150	College Composition (GT-CO2)	1A	3
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	4
LIFE 103	Biology of Organisms-Animals and Plants (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	General Crops		4
SOCR 193	Pathways to Success		1
	Total Credits		33
Sophomore			
AREC 202	Agricultural and Resource Economics (GT-SS1)	3C	3
CHEM 245	Fundamentals of Organic Chemistry		4
CHEM 246	Fundamentals of Organic Chemistry Laboratory		1
MATH 125	Numerical Trigonometry (GT-MA1)	1B	1
SOCR 171/HORT 171	Environmental Issues in Agriculture (GT-SS3)	1C	3
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	3		
AGRI 116/IE 116	Plants and Civilizations (GT-SS3)	1C	
AGRI 270/IE 270	World Interdependence-Population and Food (GT-SS3)	1C	
Select one course from the following:			2-3
FSHN 125	Food and Nutrition in Health		
FSHN 150	Survey of Human Nutrition		
Advanced Writing (http://ca #adavanced-writing)	talog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/	2	3
Arts and Humanities (http:// #arts-humanities)	/catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/	3B	3

Junior

	Program Total Credits:		120
	Total Credits		25-28
Upper Division Electives ¹			5-8
Arts and Humanities (http #arts-humanities)	://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/	3B	3
SOCR 492	Preparing for ImpactYour Career Journey	4A,4C	1
SOCR 486	Practicum	4C	1
SOCR 460/HORT 460	Plant Breeding and Biotechnology	4A,4B,4C	3
SOCR 335	Applied Plant Genetics		3
BZ 441	Plant Physiology Laboratory		2
BZ 440	Plant Physiology		3
BZ 360	Bioinformatics and Genomics		4
Senior			
	Total Credits		29-31
Upper Division Electives	initioduotion to biotationio		3
STAT 307	Introduction to Biostatistics		
STAT 301	Introduction to Applied Statistical Methods		· ·
Select one course from the	,		3
HORT 476	Environmental Plant Stress Physiology		
ESS 405/SOCR 405	Global Agriculture and Environmental Change		
BZ 331	Developmental Plant Anatomy		
BSPM 450	Molecular Plant-Microbe Interaction		3-4
Select one course from the			3-4
Group C: BSPM 361	Elements of Plant Pathology		
BSPM 308	Ecology and Management of Weeds		
Group B:	5 1 14		
	Entomology Laboratory: Horticultural		
BSPM 303A or 303B	Entomology Laboratory: General		
BSPM 302	Applied and General Entomology		
Group A:			
Select two groups from th	e following:		6-7
SOCR 330	Principles of Genetics		3
BZ 310	Cell Biology		4
BC 351	Principles of Biochemistry		4
AGED 210	History of Agriculture in the United States	3D	3

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 400level).