

MAJOR IN ECOSYSTEM SCIENCE AND SUSTAINABILITY

Major Completion Map

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
ESS 120	Intro to Ecosystem and Watershed Sciences	X			1
ESS 129	Information Management for Sustainability	X			1
Select one group from the following:		X			4
Group A:					
BZ 110	Principles of Animal Biology (GT-SC2)			3A	
BZ 111	Animal Biology Laboratory (GT-SC1)			3A	
Group B:					
LIFE 102	Attributes of Living Systems (GT-SC1)			3A	
Select one course from the following:		X			3
ATS 150	Science of Global Climate Change (GT-SC2)			3A	
GES 101	Foundations of Environmental Sustainability				
NR 120A	Environmental Conservation (GT-SC2)			3A	
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-and-humanities)			X	3B	3
Total Credits					12

Semester 2		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)	X		1A	3
ESS 130	Intro to Systems Theory for Sustainability	X			1
Select one course from the following:		X			3
AREC 240/ ECON 240	Economics of Environmental Sustainability (GT-SS1)			3C	
ECON 241	Economics to Combat Climate Change			3C	
Select one group from the following:		X			5
Group A:					
CHEM 107	Fundamentals of Chemistry (GT-SC2)			3A	
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)			3A	
Group B:					
CHEM 111	General Chemistry I (GT-SC2)			3A	
CHEM 112	General Chemistry Lab I (GT-SC1)			3A	
Select one course from the following:		X			4
MATH 155	Calculus for Biological Scientists I (GT-MA1)			1B	
MATH 160	Calculus for Physical Scientists I (GT-MA1)			1B	
CO 150, and AUCC 1B must be completed by the end of Semester 2.		X			
Total Credits					16

Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
ESS 210/GR 210	Physical Geography	X			3
Select one course from the following:		X			4
BZ 120	Principles of Plant Biology (GT-SC1)			3A	
LIFE 103	Biology of Organisms-Animals and Plants			3A	
1C (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)			X	1C	3

Electives				X	4
MATH 155 or MATH 160 must be completed by the end of Semester 3.		X			
Total Credits					14
Semester 4		Critical	Recommended	AUCC	Credits
LIFE 320	Ecology	X			3
NRRT 279	Biodiversity and Conservation Social Science	X			3
Select one course from the following:		X			5
PH 121	General Physics I (GT-SC1)			3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)			3A	
Select one course from the following:		X			3
STAT 301	Introduction to Applied Statistical Methods				
STAT 307	Introduction to Biostatistics				
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-and-humanities)			X	3B	3
Total Credits					17
Junior					
Semester 5		Critical	Recommended	AUCC	Credits
ESS 311	Ecosystem Ecology	X			3
NR 319	Introduction to Geospatial Science	X			4
WR 204/GR 204	Sustainable Watersheds	X		3A	3
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)			X	3D	3
Total Credits					13
Semester 6		Critical	Recommended	AUCC	Credits
ESS 312	Sustainability Science	X			3
ESS 320	Internship and Career Preparation	X			1
ESS 330	Quantitative Reasoning for Ecosystem Science	X			3
Select one course from the following:		X			3
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
CO 301C	Writing in the Disciplines: Social Sciences (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
LB 300	Specialized Professional Writing			2	
Electives			X		5
Total Credits					15
Semester 7		Critical	Recommended	AUCC	Credits
Professional Development and Engagement Requirement (see list on Requirements tab)		X			5
The timeline to complete this requirement may vary – plan in consultation with advisor.					
Total Credits					5
Senior					
Semester 8		Critical	Recommended	AUCC	Credits
ESS 415	Sustainability Solutions	X		4A,4B	3
Ecosystem Science and Sustainability Electives (See Department List on Concentration Requirements tab)		X			9
Total Credits					12
Semester 9		Critical	Recommended	AUCC	Credits
ESS 440	Practicing Sustainability	X		4C	4
NR 400	Public Communication in Natural Resources	X			3
Ecosystem Science and Sustainability Electives (See Department List on Concentration Requirements tab)		X			6
Elective		X			3
ESS 400 or ESS 411 MUST be completed by the end of Semester 9.		X			

The benchmark courses for the 9th semester are the remaining courses in the entire program of study.

X

Total Credits	16
Program Total Credits:	120