## 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 cour	se from the following:	X			3-4
AB 111	Feeding the World in a Changing Climate (GT-SC2)			3A	
ATS 150	Science of Global Climate Change (GT-SC2)			3A	
GES 101	Foundations of Environmental Sustainability				
NR 120A	Environmental Conservation (GT-SC2)			3A	
	nities (http://catalog.colostate.edu/general-catalog/all- curriculum/aucc/#arts-and-humanities)		Χ	3B	3
	Total Credits				12-13
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 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 cour	se 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	
Select one cour	se from the following:	X			3
ANTH 100	Introductory Cultural Anthropology (GT-SS3)			3C	
AREC 202	Agricultural and Resource Economics (GT-SS1)			3C	
AREC 240/	Economics of Environmental Sustainability (GT-SS1)			3C	
ECON 240					
ECON 202	Principles of Microeconomics (GT-SS1)			3C	
ECON 204	Principles of Macroeconomics (GT-SS1)			3C	
POLS 101	American Government and Politics (GT-SS1)			3C	
POLS 103	State and Local Government and Politics (GT-SS1)			3C	
SOC 100	Introduction to Sociology (GT-SS3)			3C	
SOC 105	Social Problems (GT-SS3)			3C	

CO 150, and AUCC 1B (Quantitative Reasoning) must be completed by the X end of Semester 2.

	Total Credits				16
Sophomore					
Semester 3		Critical	Recommended	AUCC	Credits
	O Physical Geography	Х			3
Select one cours	se from the following:	X			4
BZ 120	Principles of Plant Biology (GT-SC1)			3A	
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)			3A	
	and Inclusion (http://catalog.colostate.edu/general-catalog/	/	X	1C	3
	re-curriculum/aucc/#diversity-equity-inclusion)				
Electives			Х		4
MATH 155 or MA	ATH 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
Select one cours	se from the following:	Х			5
PH 121	General Physics I (GT-SC1)			3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)			3A	
Select one cours	se from the following:	X			3
STAT 301	Introduction to Applied Statistical Methods				
STAT 307	Introduction to Biostatistics				
	nities (http://catalog.colostate.edu/general-catalog/all- curriculum/aucc/#arts-and-humanities)		Х	3B	3
	Total Credits				14
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 (GT-SC2)	Х		3A	3
	ectives (http://catalog.colostate.edu/general-catalog/all- curriculum/aucc/#historical-perspectives)		X	3D	3
Electives	, , ,		X		3
	Total Credits				16
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
	se 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	opeolanzed i foreconomal withing		Х	_	5
	Total Credits	-			15
Semester 7	iom olomo	Critical	Recommended	AUCC	Credits
	velopment and Engagement Requirement (see list on	Х			5
Requirements ta		Λ			3
	to complete this requirement may vary – plan in consultation				
with advisor.					
	Total Credits				5

15-16

120

Senior					
Semester 8		Critical	Recommended	AUCC	Credits
Select one course from the following:		Χ			3
ESS 400	Global Perspectives on Sustainability			4A,4B	
(Spring only)					
ESS 411	Earth Systems Ecology			4A,4B	
Ecosystem Science and Sustainability Electives (See Department List on		X			9
Concentration F	Requirements tab)				
	Total Credits				12
Semester 9		Critical	Recommended	AUCC	Credits
ESS 440	Practicing Sustainability	Χ		4C	4
NR 400	Public Communication in Natural Resources	X			3
Ecosystem Science and Sustainability Electives (See Department List on		Χ			6
Concentration F	Requirements tab)				
Elective		Χ			2-3

Χ

Χ

ESS 400 or ESS 411 MUST be completed by the end of Semester 9.

**Total Credits** 

**Program Total Credits:** 

entire program of study.

The benchmark courses for the 9th semester are the remaining courses in the