MAJOR IN WATERSHED SCIENCE AND SUSTAINABILITY, WATERSHED SCIENCE CONCENTRATION

Major Completion Map

Distinctive Requirements for Degree Program: This program assumes that students will either test out of or take the prerequisite Mathematics courses (MATH 117, MATH 118, MATH 124, MATH 125, MATH 126) prior to the courses listed in this plan.

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)	X		1A	3
ESS 120	Intro to Ecosystem and Watershed Sciences	X			1
ESS 129	Information Management for Sustainability	X			1
WR 204/GR 204	Sustainable Watersheds (GT-SC2)	X		3A	3
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	
	Total Credits				**13**

Semester 2		Critical	Recommended	AUCC	Credits
STAT 158	Introduction to R Programming	X			1
Select one course from the following:		X			3-4
ESS 210/ GR 210	Physical Geography				
GEOL 110	Introduction to Geology-Parks and Monuments (GT-SC2)			3A	
GEOL 120	Exploring Earth - Physical Geology (GT-SC2)			3A	
GEOL 122	The Blue Planet - Geology of Our Environment (GT-SC2)			3A	
GEOL 124	Geology of Natural Resources (GT-SC2)			3A	
GEOL 150	Physical Geology for Scientists and Engineers			3A	
Select 4 credits from the following:		X			4
BZ 120	Principles of Plant Biology (GT-SC1)			3A	
BZ 110 & BZ 111	Principles of Animal Biology (GT-SC2)			3A	
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		X		1C	3
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)			X	3C	3
CO 150 requirement must be completed by the end of Semester 2.		X			
	Total Credits				**14-15**

Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
MATH 155 or 160	Calculus for Biological Scientists I (GT-MA1) Calculus for Physical Scientists I (GT-MA1)	X		1B	4
PH 121 or 141	General Physics I (GT-SC1) Physics for Scientists and Engineers I (GT-SC1)			3A	5
SOCR 240	Introductory Soil Science				4

Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
	Total Credits				**16**
Semester 4		**Critical**	**Recommended**	**AUCC**	**Credits**
LIFE 320	Ecology				3
MATH 161 or 255	Calculus for Physical Scientists II (GT-MA1) Calculus for Biological Scientists II	X		1B	4
PH 122 or 142	General Physics II (GT-SC1) Physics for Scientists and Engineers II (GT-SC1)	X		3A	5
STAT 301 or 315	Introduction to Applied Statistical Methods Intro to Theory and Practice of Statistics	X			3
WR 204/GR 204 must be completed by the end of Semester 4.		X			
	Total Credits				**15**
Semester 5		**Critical**	**Recommended**	**AUCC**	**Credits**
NR 220	Natural Resource Ecology and Measurements	X			5
	Total Credits				**5**
Junior					
Semester 6		**Critical**	**Recommended**	**AUCC**	**Credits**
NR 319	Introduction to Geospatial Science				4
WR 416	Land Use Hydrology	X		4B	3
WR 474	Snow Hydrology	X			3
WR 486	Watershed Field Practicum	X			2
Electives			X		3
	Total Credits				**15**
Semester 7		**Critical**	**Recommended**	**AUCC**	**Credits**
AREC 342	Water Law, Policy, and Institutions	X			3
WR 418	Land Use and Water Quality	X			3
Select one course from the following:		X			3
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
LB 300	Specialized Professional Writing			2	
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
Electives			X		3
	Total Credits				**15**
Senior					
Semester 8		**Critical**	**Recommended**	**AUCC**	**Credits**
WR 417	Watershed Measurements	X			3
Select one from the following:		X			4
GEOL 452	Hydrogeology				
SOCR 470 & SOCR 471	Soil Physics				
Select one course from the following:		X			3
BZ 471	Stream Biology and Ecology				
ESS 474	Limnology				
Watershed Science Elective (See list on requirements tab.)			X		3
	Total Credits				**13**
Semester 9		**Critical**	**Recommended**	**AUCC**	**Credits**
WR 440	Watershed Problem Analysis	X		4A,4B,4C	3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		X		3D	3
Watershed Science Elective (See list on requirements tab.)		X			3
Electives		X			4-5

The benchmark courses for the 9th semester are the remaining courses in the entire program of study.	X	
Total Credits		**13-14**
Program Total Credits:		**120**