

# MAJOR IN WATERSHED SCIENCE AND SUSTAINABILITY, WATERSHED SUSTAINABILITY CONCENTRATION

courses (MATH 117, MATH 118, MATH 124, MATH 125, MATH 126) prior to the courses listed in this plan.

## Major Completion Map

**Distinctive Requirements for Degree Program:** This program assumes that students will either test out of or take the prerequisite Mathematics

### Freshman

Semester 1		Critical	Recommended	AUCC	Credits
CHEM 103	Chemistry in Context (GT-SC2)	X		3A	3
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
GES 120	Water Sustainability in the Western US	X			3
GR 204/WR 204	Sustainable Watersheds (GT-SC2)	X		3A	3
<b>Total Credits</b>					<b>14</b>

Semester 2		Critical	Recommended	AUCC	Credits
Select 4 credits from the following:		X			4
BZ 110 & BZ 111	Principles of Animal Biology (GT-SC2)			3A	
BZ 120	Principles of Plant Biology (GT-SC1)			3A	
Select one course from the following:		X			3-4
ESS 210/GR 210	Physical Geography			3B	
GEOL 110	Introduction to Geology-Parks and Monuments (GT-SC2)			3A	
GEOL 120	Geology and Society (GT-SC2)			3A	
GEOL 122	Geoscience–Climate and Environmental Change (GT-SC2)			3A	
GEOL 124	Earth Resources and Sustainability (GT-SC2)			3A	
GEOL 150	Dynamic Earth (GT-SC2)			3A	
1C ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc</a> )		X		1C	3
Historical Perspectives ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives</a> )			X	3D	3
<b>Total Credits</b>					<b>13-14</b>

### Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
ATS 150	Science of Global Climate Change (GT-SC2)	X		3A	3
ECON 202 or AREC 202	Principles of Microeconomics (GT-SS1) / Agricultural and Resource Economics (GT-SS1)	X		3C	3
PH 110	Physics of Everyday Phenomena (GT-SC2)	X		3A	3
Select one course from the following:		X			3-4
MATH 141	Calculus in Management Sciences (GT-MA1)			1B	
MATH 155	Calculus for Biological Scientists I (GT-MA1)			1B	
MATH 160	Calculus for Physical Scientists I (GT-MA1)			1B	
Electives					3
<b>Total Credits</b>					<b>15-16</b>

<b>Semester 4</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
AREC 342	Water Law, Policy, and Institutions	X			3
LIFE 320	Ecology	X			3
SOC 100 or 105	Introduction to Sociology (GT-SS3) Social Problems (GT-SS3)	X		3C	3
STAT 158	Introduction to R Programming	X			1
STAT 301 or 315	Introduction to Applied Statistical Methods Intro to Theory and Practice of Statistics	X			3
Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )			X	3B	3
WR 204/GR 204 must be completed by the end of Semes		X			
<b>Total Credits</b>					<b>16</b>
<b>Semester 5</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
NR 220	Natural Resource Ecology and Measurements	X			5
<b>Total Credits</b>					<b>5</b>
<i>Junior</i>					
<b>Semester 6</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
NR 320 or 310	Natural Resources History and Policy Ecosystem Services and Human Well-Being				3
NR 319	Introduction to Geospatial Science				4
WR 416	Land Use Hydrology	X		4B	3
WR 486	Watershed Field Practicum	X			2
Watershed Science Department List (see list on Concentration Requirements tab)					3
<b>Total Credits</b>					<b>15</b>
<b>Semester 7</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
ESS 312	Sustainability Science	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 ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )			X	3B	3
Electives			X		3
<b>Total Credits</b>					<b>15</b>
<i>Senior</i>					
<b>Semester 8</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
Watershed Science Department List (see list on Concentration Requirements tab)			X		9
Electives			X		3
<b>Total Credits</b>					<b>12</b>
<b>Semester 9</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
WR 440	Watershed Problem Analysis	X		4A,4B,4C	3
Watershed Science Department List (see list on Concentration Requirements tab)		X			3
Electives		X			7-9
The benchmark courses for the 9th semester are the remaining courses in the entire program of study.		X			
<b>Total Credits</b>					<b>13-15</b>
<b>Program Total Credits:</b>					<b>120</b>