WARNER COLLEGE OF NATURAL RESOURCES
COLORADO STATE UNIVERSITY

MAJOR IN WATERSHED SCIENCE & SUSTAINABILITY

Concentration: Watershed Sustainability

Check or list course sub	YEAR 1		Offered	Sequenced Prerequisites	# of credits	AUCC Category
Required courses for Year 1:						
_____	ESS 120	Intro to Ecosystem and Watershed Sciences	F		1	
_____	ESS 129	Information Management for Sustainability	F		1	
_____	CHEM 103	Chemistry in Context	F, S, SS		3	3A
_____	GES 120	Water Sustainability in the Western US	F		3	
_____	WR/GR 204	Sustainable Watersheds	F, S		3	3A

AUCC Category 1A Intermediate Writing – Suggested completion during Year 1						
_____	CO 150	College Composition	F, S, SS	Test or scores, or CO 130	3	1A

Biology Selection – Choose one course from the following:						
	BZ 110/111	Principles of Animal Biology/Lab	F, S, SS	BZ 111: BZ 110 or concurrent registration	4	3A
	BZ 120	Principles of Plant Biology	F, S, SS		4	3A

Geology/Geography Selection – Choose one course from the following:						
_____	GEOL 110	Intro to Geology-Parks and Monuments	F, S, SS		3	3A
	GEOL 120	Physical Geology	F, S, SS		3	3A
	GEOL 122	The Blue Planet: Geology of Our Environment	F, S		3	3A
	GEOL 124	Geology of Natural Resources	S		3	3A
	GEOL 150	Physical Geology for Scientists and Engineers	F		4	
	GR/ESS 210	Physical Geography	F		3	

Check or list course sub	YEAR 2		Offered	Sequenced Prerequisites	# of credits	AUCC Category
Required courses for Year 2:						
_____	ATS 150	Science of Global Climate Change	F, S		3	
_____	LIFE 320	Ecology	F, S	BZ 110 or 120 or LIFE 102; MATH 141 or 155 or 160	3	
_____	PH 110	Physics of Everyday Phenomena	F, S		3	3A
_____	AREC 342	Water Law, Policy, and Institutions	S		3	
_____	STAT 158	Intro. to R Programming	S, SS		1	

Calculus Selection – Choose one course from the following:						
_____	MATH 141	Calculus in Management Sciences	F, S, SS	MATH 117, MATH 118	3	1B
	MATH 155	Calculus for Biological Scientists I	F, S, SS	MATH 117, MATH 118, MATH 124, MATH 125	4	1B
	MATH 160	Calculus for Physical Scientists I	F, S, SS	MATH 117, MATH 118, MATH 124, MATH 126	4	1B

Statistics Selection – Choose one course from the following:						
_____	STAT 301	Intro to Applied Statistical Methods	F, S, SS	MATH 117 or higher	3	
	STAT 315	Intro to Theory and Practice of Statistics	F, S, SS	MATH 160 or 155	3	

Sociology Selection – Choose one course from the following:						
	SOC 100	Introduction to Sociology	F, S, SS		3	3C
	SOC 105	Social Problems	F, S, SS		3	3C

Economics Selection – Choose one course from the following:						
	AREC 202	Agricultural and Resource Economics	F, S	MATH 117 (may be taken concurrently) or higher	3	3C
_____	ECON 202	Principles of Microeconomics	F, S, SS	MATH 117 (may be taken concurrently) or higher	3	3C

Check or list course sub	YEAR 3		Offered	Sequenced Prerequisites	# of credits	AUCC Category
Required courses for Year 3:						
_____	NR 319	Introduction to Geospatial Science	F, S		4	
	WR 416	Land Use Hydrology	F	SOCR 240 or Geology; Statistics; Physics	3	4
_____	WR 486	Watershed Field Practicum	F	Junior standing	2	
_____	ESS 312	Sustainability Science	S	LIFE 320	3	
_____	WR 418	Land Use and Water Quality	S	Any Chemistry class with lab; Statistics; STAT 158	3	

Advanced Writing Selection – Choose one course from the following:						
_____	CO 301B	Writing in the Disciplines-Sciences	F, S, SS	CO 150 or HONR 193	3	2
	JTC 300	Strategic Writing & Communications	F, S, SS	CO 150 or HONR 193	3	2
	LB 300	Specialized Professional Writing	F, S, SS	CO 150 or HONR 193	3	2

Natural Resources Selection – Choose one course from the following:						
_____	NR 310	Ecosystem Services and Human Well-Being	F	AREC or ECON 202 or LAND 220 or LIFE 220	3	
	NR 320	Natural Resources History and Policy	F, S, SS	Junior standing	3	

Check or list course sub	YEAR 4		Offered	Sequenced Prerequisites	# of credits	AUCC Category
Required courses for Year 4:						
	WR 440	Watershed Problem Analysis (Capstone course)	S	NR 319; WR 416 and WR 418	3	4
_____	Watershed Technical Electives*				6	
_____	Sustainability Electives**				9	

MOUNTAIN CAMPUS SUMMER FIELD PROGRAM – Recommended summer between Year 2 and Year 3						
_____	NR 220	Natural Resource Ecology & Measurements	SS	BZ 120 or similar, MATH 118	5	

Check or list course sub	OTHER REQUIRED COURSEWORK – To be completed at any time in major program	# of credits	AUCC Category
_____	Diversity, Equity, and Inclusion	3	1C
_____	Arts and Humanities	3	3B
_____	Arts and Humanities	3	3B
_____	Historical Perspectives	3	3D
_____	Open Electives – Non-directed electives of students' choice; can be used toward a minor	14-16	

* Watershed Technical Electives – Choose from the list of approved courses selected for Watershed Science and Sustainability students. Please see the ESS Department website or check with your Watershed Academic Success Coordinator or Faculty Mentor for the most up-to-date course list.

** Sustainability Electives – Choose from the list of approved courses selected for students in the Watershed Sustainability concentration. Please see the ESS Department website or check with your Watershed Academic Success Coordinator or Faculty Mentor for the most up-to-date course list.