



Check or list course sub	YEAR 1		Offered	Sequenced Prerequisites	# of credits	AUCC Category
Required courses for Year 1:						
	CS 150B	Culture and Coding: Python	F, S		3	3B
	STAT 158	Intro to R Programming	S, SS		1	
	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	

Chemistry Selection – Choose one course from the following:						
	CHEM 107	Fundamentals of Chemistry	F, S, SS	MATH 117 or test placement; Lab: CHEM 107 or concurrent registration	4	3A
	CHEM 111	General Chemistry I	F, S, SS	MATH 118 or test placement; Lab: CHEM 111 or concurrent registration	4	3A

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

Check or list course sub	YEAR 2		Offered	Sequenced Prerequisites	# of credits	AUCC Category
Required courses for Year 2:						
	CS 220	Discrete Structures and their Applications	F, S	CS 150B (with a minimum grade of B); MATH 155 or 160	4	
	NR 319	Introduction to Geospatial Science	F, S		4	
	SOCR 240	Introduction to Soil Science	F, S	CHEM 107 or 111	4	
	DSCI 369	Linear Algebra for Data Science	S	MATH 155 or 160	4	
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	
Physics Selection – Choose one course from the following:						
	PH 121	General Physics I	F, S, SS	MATH 125 or concurrent registration	5	3A
	PH 141	Physics for Scientists and Engineers I	F, S, SS	MATH 126; MATH 155 or 160 or concurrent reg.	5	3A

Check or list course sub	YEAR 3		Offered	Sequenced Prerequisites	# of credits	AUCC Category
Required courses for Year 3:						
	STAT 341	Statistical Data Analysis I	F	STAT 158; STAT 301 or 315	3	
	WR 416	Land Use Hydrology	F	SOCR 240 or Geology; Statistics; Physics	3	4
	WR 486	Watershed Field Practicum	F	Junior standing	2	
	AREC 342	Water Law, Policy, and Institutions	S		3	
	DSCI 335	Inferential Reasoning in Data Analysis	S	CO 301B or JTC 300; STAT 301 or 315	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

Check or list course sub	YEAR 4		Offered	Sequenced Prerequisites	# of credits	AUCC Category
Required courses for Year 4:						
	WR 417	Watershed Measurements	F	WR 416; WR 418	3	
	WR 474	Snow Hydrology	F	WR 416 (may be taken concurrently)	3	
	WR 440	Watershed Problem Analysis (Capstone course)	S	NR 319; WR 416 and WR 418	3	4
	Watershed Technical Electives*				9	
	Data Science Electives**				3	

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
	Social and Behavioral Sciences	3	3C
	Historical Perspectives	3	3D
	Open Electives – Non-directed electives of students' choice; can be used toward a minor	12-13	

* 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.

** Data Science Electives – Choose from the list of approved courses selected for students in the Watershed Data 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.