



**MAJOR IN
ECOSYSTEM SCIENCE
AND SUSTAINABILITY
HONORS TRACK 2**
Effective Fall 2018

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
_____	ESS 130	Intro to Systems Theory for Sustainability	S	ESS 129	1

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

Biology Selection – Choose one set (either LIFE or BZ) from the following:					
_____	LIFE 102 and LIFE 103	Attributes of Living Systems	F, S, SS		4
		Biology of Organisms-Animals and Plants	F, S, SS		4
	BZ 110/111 and BZ 120	Principles of Animal Biology/Lab	F, S, SS	BZ 111 lab: BZ 110 or concurrent registration	4
		Principles of Plant Biology	F, S		4
					3A
					3A

Chemistry Selection – Choose one lecture and lab from the following:					
_____	CHEM 107/108	Fundamentals of Chemistry/Lab	F, S, SS	MATH 117 or test placement; Lab: CHEM 107 or concurrent registration	5
	CHEM 111/112	General Chemistry I/Lab	F, S, SS	MATH 118 or test placement; completion of Chem Prep/ALEKS OR CHEM 105. Lab: CHEM 111 or concurrent registration	5
					3A
					3A

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

Environmental Science Selection – Choose one course from the following:					
_____	ESS/ANTH 150	Imagining Sustainability	F		3
	GES 101	Foundations of Environmental Sustainability	F, S		3
	NR 120 (A or B)	Environmental Conservation	F, S	Freshman only	3-4
					3A

Social/Behavioral Science Selection – Choose one course from the following:					
_____	ANTH 100 Intro to Anthropology	POLS 101 American Government			3
	AREC/ECON 202 Microeconomics	POLS 103 State/Local Government			
	AREC/ECON 204 Macroeconomics	SOC 100 Intro to Sociology			
	AREC/ECON 240 Environ. Issues in Ag	SOC 105 Social Problems			
					3C

Check or list course sub	YEAR 2		Offered	Sequenced Prerequisites	# of credits	AUCC Category
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Required courses for Year 2:

_____	ESS/GR 210†	Physical Geography	F		3	
_____	LIFE 320†	Ecology (Honors sections available)	F, S	LIFE 102 or BZ 110/111 or BZ 120; MATH 155 or 160	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	F, S, SS	MATH 126, MATH 155 or 160 or concurrent reg.	5	3A

Statistics Selection – Choose one course from the following:

_____	STAT 301	Introduction to Statistical Methods	F, S, SS	MATH 117 or higher	3	
_____	STAT 307	Introduction to Biostatistics	F, S, SS	MATH 117 or higher	3	

Check or list course sub	YEAR 3		Offered	Sequenced Prerequisites	# of credits	AUCC Category
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Required courses for Year 3:

_____	ESS 311††	Ecosystem Ecology	F	Physics; LIFE 320	3	
_____	ESS 312	Sustainability Science	S	ESS 311	3	
_____	ESS 320	Internship and Career Prep	F, S	LIFE 320	1	
_____	ESS 330	Quantitative Reasoning	S	MATH 155 or 160; STAT 301 or 307; ESS 211 or LIFE 320	3	
_____	WR/GR 304†	Sustainable Watersheds	F, S	AUCC 1B Mathematics	3	3A
_____	NR 322	Introduction to GIS	F, S		4	

Advanced Writing Selection – Choose one course from the following:

_____	CO 301 B or C	Writing in the Disciplines – Sciences or Social Sciences	F, S, SS	Junior/Senior standing, CO 150 or HONR 193	3	2
_____	JTC 300	Professional Technical Communication	F, S, SS	Junior/Senior standing, CO 150 or HONR 193	3	2
_____	LB 300	Specialized Professional Writing	F, S, SS	Junior/Senior standing, CO 150 or HONR 193	3	2

Check or list course sub	YEAR 4		Offered	Sequenced Prerequisites	# of credits	AUCC Category
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Required courses for Year 4:

_____	GR/NR 323	Remote Sensing of Natural Resources	F		3	
_____	NR 400	Public Communication in NR	F, S, SS	Advanced Writing	3	
_____	ESS 440††	Practicing Sustainability (Capstone course)	S	ESS 312 and 330	4	4
_____	ESS Electives*††				9	

Choose one course from the following:

_____	ESS 411††	Earth Systems Ecology	F	ESS 312	3	4A, 4B
_____	ESS 400††	Global Perspectives on Sustainability	S	ESS 312	3	4A, 4B

Check or list course sub	PROFESSIONAL DEVELOPMENT AND ENGAGEMENT REQUIREMENT Select one option from the following to be planned in consultation with advisor				# of credits
_____	NR 220	Natural Resource Ecology & Measurements	SS	BZ 120 or similar, MATH 118	5
_____	ESS 487	Internship	F, S, SS	ESS 320	5
_____	ESS 220 ESS 221 ESS 298	ESS SUPER Program: Research Skills, Methods, and Placement	F/S		5
_____	Department-Approved Study Abroad Program				5

Check or list course sub	OTHER REQUIRED COURSEWORK – To be completed at any time in major program		AUCC Category
_____	Arts and Humanities – Can be met by HONR 292B	3	3B
_____	Arts and Humanities	3	3B
_____	Historical Perspectives	3	3D
_____	Diversity and Global Awareness – Can be met by HONR 292C	3	3E
_____	Open Electives – Non-directed electives of students' choice; can be used toward a minor	17-18	

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

Check or list course sub	HONORS CURRICULUM – TRACK 2^					AUCC Category
Choose one course during Year 2:						
_____	HONR 292A	Honors Seminar – Knowing in the Sciences	F, S		3	3A
_____	HONR 292B	Honors Seminar – Knowing in Arts and Humanities	F, S		3	3B
_____	HONR 292C	Honors Seminar – Knowing Across Cultures	F, S		3	3E

✓	15 credits within major at Honors level					
_____	HONR 399	Honors Pre-Thesis	F, S		1	
_____	HONR 499	Honors Thesis	F, S	HONR 399	3	

Honors Coursework in Major:

† Pre-Approved options for one 200/300-level Honors course within major.

†† ESS 311 (3 credits) is required. For additional 9 credits, options include 400-level ESS courses at Honors level, independent study, and graduate coursework.

^ Students entering the Honors Program **after first semester of freshman year** will take an additional Honors-level course (in any discipline) from 100-400 level to substitute for the Honors freshman seminar, in addition to the 15 credits within the major.