APPROVED COMMISSION ON UNDERGRADUATE STUDIES AND POLICIES

College of Agriculture and Life Sciences School of Plant and Environmental Sciences Bachelor of Science in Environmental Science

Major in Ecological Restoration For students entering under UG catalog 2021-2022

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Pathways to General Education (44-47 credits)	Common Degree Core Requirements (21)
Concept 1 – Discourse (9 credit hours)	(1) SPES 1004: First Year Seminar or ALS 1234: CALS First Year Seminar - F
1F – Foundational	(3) BIOL 1105: Principles of Biology – F, W, SI
(3) ENGL 1105 First-Year Writing – F, S	(3) BIOL 1106: Principles of Biology – S, W, SII
(3) ENGL 1106 First-Year Writing – F, S, SI, SII	(3) CSES/ENSC 3114 or GEOS 3614: Soils* – F
1A – Advanced/Applied	(1) CSES/ENSC 3124 or GEOS 3624: Soils Laboratory* - F
(3) – F, S, W, SI, SII	(3) ENSC 3604: Fundamentals of Environmental Science* - F
Concept 2 – Critical Thinking in the Humanities (6 credits)	(3) GEOG 2084: Principles of GIS – F, S or GEOG 4354: Introduction to
(3) – F, S, W, SI, SII	Remote Sensing <i>or</i> FREC 4114 Informational Technologies for Natural
(3) – F, S, W, SI, SII	Resources Management* – F
Concept 3 – Reasoning in the Social Sciences (6 credits)	<u> </u>
(3) AAEC 1005 Econ Food Fiber Sys	(3) GEOS 1004: Introduction to Earth Science
or ECON 2005 Principles of Economics – F, S	<u>or</u> GEOS 2104 Elements of Geology - F
(3) – F, S, W, SI, SII Concept 4 – Reasoning in the Natural Sciences (8 credits)	(1) ENSC 4864: Environmental Science Capstone*
(3) CHEM 1035: General Chemistry* – F, S, SI, SII	
(1) CHEM 1045: General Chemistry Laboratory* – F, S, SI, SII	Major Requirements for Ecological Restoration (21 credits)
(3) CHEM 1036: General Chemistry* – F, S, SI, SII	(3) BIOL/HORT 2304: Plant Biology* – F, S
(1) CHEM 1046: General Chemistry Laboratory* – F, S, SI, SII	(3) BIOL 2804: Ecology* – F, S, SII
Concept 5 – Quantitative and Computational Thinking (11 credits)	(3) BIOL 3204: Plant Taxonomy* - S
5f – Foundational (8 credits)	(3) ENSC 3244: Ecological Restoration*
(3) MATH 1025: Elementary Calculus – F, S, SI, SII	(3) CSES/ENSC 3644: Plant Materials for Environmental Restoration * – S
(3) MATH 1026: Elementary Calculus – F, S, SI, SII	(3) CSES/ENSC 4774: Reclamation of Disturbed Lands* – F (even years)
5a – Advanced/Applied (3 credits)	(3) PPWS 4604: Biological Invasions* - F
(3) STAT 3615 Biological Statistics* – F, S, SI, SII	
Concept 6 – Critique and Practice in Design and the Arts (6 credits)	Ecology Restricted Electives (choose 9 credits)
6d – Design	(3) ALS 3404: Ecological Agriculture – F
(3) – F, S, W, SI, SII	(4) BIOL 4004: Freshwater Ecology* – F
6a – Arts	(3) BIOL 4114: Global Change Ecology*
(3) – F, S, W, SI, SII	(3) CSES/FREC 4334: Agroforestry - F
Concept 7 – Critical Analysis of Identity and Equity in the United States (3 credits)	(3) CSES/ENSC 4764: Bioremediation - F
Edit "(may be double-counted with another core concept)" to read, "(may be	(3) CSES 4554: Forage Crop Ecology- S
double-counted with another Pathways concept)"	
(3) – F, S, W, SI, SII	(3) HORT/FREC 2134: Plants & Greenspaces Urban Com – F,W

^{*} Prerequisites: Some courses listed on this checksheet may have pre-/co-requisites; please consult the University Course Catalog or check with your advisor

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Plant and Soil Sciences Restricted Electives (choose 6 credits)	(3) HORT 3326: Woody Landscape Plants - S
(3) HORT 2244: Plant Propagation – S	(3) UAP 4374: Land Use and Environ* – F
(3) HORT 4064: Soil Microbiology* – F	
(3) HORT 3324: Herbaceous Landscape Plants*	Free Electives (number needed to complete 120 credits)
(3) CSES 4174: Soil Evaluation and Sampling* – S	()
(3) CSES 4214: Soil Fertility and Management* - F	()
(3) CSES/ENSC 4854: Wetlands Soils and Mitigation* – F	()
Human Dimensions Restricted Elective (choose 3 credits)	Note:
(3) AAEC 3314: Environmental Law*- S	Total Hours Required:120
(3) AAEC 3324: Environmental Sustain Dev Econ* - S	GPA requirements:
(3) ALCE 4304: Community Education & Development* - F	 Overall GPA: 2.0 each semester
(3) UAP/PSCI 3344: Global Environ Issues*– F, S	 In major GPA: 2.0 by graduation
(3) UAP 3354: Environ Policy & Plan – F	 Includes classes in BIOL, CHEM, CSES, and ENSC
(3) UAP 4344: Law of Critical Environmental Areas – S	Upon having attempted 60 semester credits (including transfer,
Restricted Electives (choose 12 credits) (3) BIOL 2504: General Zoology* - S (3) CSES/ENSC/BIOL 4164: Environmental Microbiology* - S (3) CSES/ENSC 3614: Soil Physical & Hydrological Properties* - S (3) CSES/ENSC/CHEM 4734: Environmental Soil Chemistry* - S (2) ENSC 4414: Monitoring & Analysis of the Environment* - S (3) CSES/ENSC 4314: Water Quality* - S (3) FIW 2314: Wildlife Biology* - S (3) FIW 2324: Wildlife Field Biology* - F, S (3) FIW 4534: Ecology & Management of Wetland Systems* - F (3) FIW 4114: Biodiversity Conservation*	advanced placement, advanced standing, and credit by examination) satisfactory progress towards a B.S. degree in ENSC will include passing the following: O At least 24 semester credits that meet the Pathways of General Education requirements, O BIOL 1105, 1106, CSES 3114, 3124, ENSC 3604, SPES 1004 or ALS 1234, and O 8 credits of CHEM, with 6 credits of MATH or STAT Language Study Requirement: Sequence of two foreign language courses or equivalent transfer/high school credit (6 cr.) *Some courses listed on this checksheet may have pre-/co-requisites; please consult the University Course Catalog or check with your advisor.
(3) GEOG/WATR 2004: Water, Environment & Society - F (3) GEOG 3104: Environmental Problems Population and Development -S (3) GEOG/GEOS 4084: Modeling with GIS* – F, S (3) GEOG 4314: Analysis in GIS* – S	F – Fall, S – Spring, W – Winter, SI – Summer, Part I, SII – Summer, Par II indicate the term a course is offered. Course offerings are subject t change.
(3) HORT 2134: Plants & Greenspaces Urban Com – F, W (3) HORT 3325: Woody Landscape Plants – F	
(3) NONT 3323. WOODY LANDSCAPE PIANTS — F	

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