

## College of Agriculture and Life Sciences – School of Plant and Environmental Sciences Bachelor of Science in Environmental Science (ENSC) For students entering under UG Catalog 2023-2024

Pathways to General Education (44-47 credits)	Common Degree Core Requirements (20 credits)
1. Discourse	(1) ALS 1234 CALS or SPES 1004: First Year Seminar
(3, foundational) ENGL 1105: First-Year Writing	(3) BIOL 1105: Principles of Biology
(3, foundational) ENGL 1106: First-Year Writing	(3) BIOL 1106: Principles of Biology
(3, advanced/applied) * ENGL 3764: Technical Writing	(3) *CSES 3114 or GEOS 3614: Soils
2. Critical Thinking in the Humanities	(1) CSES 3124 or GEOS 3624: Soils Laboratory
(3)	(3) *ENSC 3604: Fund Environ Science
(3)	(3) GEOG 2084: Principles of GIS <u>or</u> GEOG/GEOS 4354: Introduction
3. Reasoning in the Social Sciences	to Remote Sensing or FREC 4114: Info Tech Natl Resource Mgt
(3) AAEC 1005: Econ Food Fiber Sys <u>or</u> ECON 2005: Principles of	(3) GEOS 1004: Intro to Earth Science <u>or</u> GEOS 2104: Elements of
Economics	Geology
	Specific Course Requirements for ENSC Major (24 credits)  (3) *CHEM 2514 Survey of Organic Chemistry or CHEM 2535: Organic Chemistry  (3) *CHEM 2114: Analytical Chemistry  (1) *CHEM 2124: Analytical Chemistry Lab  (3) *PHYS 2205: General Physics  (3) *ENSC 3634: Physics of Pollution  (3) *CSES 4854: Wetlands Soils and Mitigation  (3) *GEOS 4804: Groundwater Hydrology  (3) *ENSC/CHEM 4734: Environmental Soil Chemistry  (2) *ENSC 4414: Monitoring & Analysis Environ
6. Critique and Practice in Design and the Arts	
(3, design)	Major Specific Course Req. (Choose 12 credits from list below)
(3, arts) 7. Critical Analysis of Identity and Equity in the United States	(3) ALS 3404: Ecological Agriculture
(may be double-counted with another core concept)	(3) *CSES 3614: Soil Phys & Hydro Properties
(3)	(3) *ENSC 3644: Plant for Envir Rest
(3)	(3) *CSES 4064: Soil Microbiology
	(3) *CSES 4134: Soil Genesis & Class
	(3) *ENSC/BIOL 4164: Environmental Microbiology
	(3) *ENSC 4314: Water Quality
	(3) *ENSC 4774: Reclamation of Disturbed Lands

\_\_\_ (3) \*ENSC 4244 Ecological Restoration

\_\_ (3) \*FREC/WATR 3104: Prin of Watershed Hydrology



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<u>Technical Electives (Choose at least 16 credits from list below – or approved</u>	(3) *FREC/WATR 3754: Watersheds and Water Quality
by Program Director)	(3) FREC/CSES 4334: Agroforestry
(3) AAEC 3314: Environmental Law	(3) FREC 4354: Forest Soil and Watershed Mgmt
(3) *AAEC 3324: Environmental Sustain Dev Econ	(3) FREC 4374: Forested Wetlands
(2) ALS/WATR 4614: Watershed Assess Mgt Policy	(3) *FREC 4784: Wetland Hydro/Biogeochemistry
(3) *BIOL 2604: General Microbiology	(3) GEOG 3314: Cartography
(2) *BIOL 2614: General Microbiology Lab	(3) *GEOG/GEOS 4084: Modeling with GIS
(3) *BIOL 2804: Ecology	(3) *GEOG 4314: Analysis in GIS
(4) *BIOL 4004: Freshwater Ecology	(3) GEOG/GEOS 4354: Introduction to Remote Sensing
(1) CEE 2824: Civil Engr Drawings and CAD	(3) GEOS 3034: Oceanography
(3) *CEE 3104: Intro Environ Engr	(3) *GEOS 3404: Elements of Structural Geology
(3) *CEE 4134: Sustainable Systems	(3) *GEOS 4634: Environmental Geochemistry
(3) *CEE 4174: Solid & Haz Waste Mgt	(3) PHS 3014: Intro to Environmental Health
(3) *CHEM 4514: Green Chemistry	(3) *PHS 4054: Concepts in One Health
(3) *CHEM 4615: Phys Chem Life Sci	(1-3) SPES 4964, 4974, 4994, or 3954 : Field Study, Independent Study,
(3) *CSES/GEOG/GEOS 3304: Geomorphology	Undergraduate Research, Study Abroad (only up to 3 credits total)
(3) *CSES 3144: Soil Description and Interp	(3) UAP/PSCI 3344: Global Environ Issues
(3) *CSES 4214: Soil Fertility and Management	(3) UAP 3354: Environ Policy & Plan
(3) *ENGR 3124: Green Engineering	(3) UAP 4264: Environmental Ethics
(3) *ENGR 4134: Env Life Cycle Assessment	(3) UAP 4344: Law of Critical Env Areas
(3) *FIW 4534: Ecol & Mgmt of Wetland Systems	(3) UAP 4374: Land Use and Environ
(3) *FIW 4624: Marine Ecology	

## NOTES:

- Total Hours Required: 120
- \*Prerequisites: Some courses listed on the checksheet may have pre/co-requisites; please consult the University Course Catalog or check with your advisor.
- Satisfactory Progress: By the end of the academic year in which the student has attempted 60 credits (including transfer, advanced placement, advanced standing and credit by examination), "satisfactory progress" toward a B.S. degree in ENSC will include:
  - o Passing the following: At least 24 credits that apply to the Pathways of General Education
    - BIOL 1105, 1106, ALS 1234, CSES/ENSC 3114, 3124, ENSC 3604, 12 credits of CHEM, 9 credits of MATH and/or STAT
- GPA Requirements:
  - Overall GPA: 2.0 (each semester in order to be in good academic standing) with a C- or Better in Chemistry 1035, 1036, CHEM 2514 or 2535, and CHEM 2114.
  - In-major GPA: 2.0 (by the time the student graduates)
    - o Includes classes in: BIOL, CHEM, CSES, ENSC, FREC, GEOS, PHYS
- Language Study Requirement: Students who did not successfully complete at least two years of a single foreign, classical, or sign language during high school must successfully complete six semester hours of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count toward the hours required for graduation. Please consult the Undergraduate Catalog for details.