

**College of Agriculture & Life Sciences — Department of Crop and Soil Environmental Sciences - B.S. in ENSC — Water Science and Quality  
Option; Students graduating calendar year 2018**

**Curriculum for Liberal Education (CLE) Requirements (29 credits)**

__ AAEC 1005	(3)	Econ of Food & Fiber (CLE 3)
<i>or</i> ECON 2005		Principles of Economics (CLE 3)
__ AAEC 1006	(3)	Econ of Food & Fiber (CLE 3)
<i>or</i> ECON 2006		Principles of Economics (CLE 3)
__ CHEM 1035	(3)	General Chemistry (CLE 4)
__ CHEM 1045	(1)	General Chemistry Lab (CLE 4)
__ CHEM 1036	(3)	General Chemistry (CLE 4)
__ CHEM 1046	(1)	General Chemistry Lab (CLE 4)
__ ENGL 1105	(3)	First Year Writing (CLE 1)
__ ENGL 1106	(3)	First Year Writing (CLE 1)
__ ENSC 3604	(3)	Fund Env Science (CLE 7)
__ MATH 1025	(3)	Elementary Calculus (CLE 5)
__ MATH 1026	(3)	Elementary Calculus (CLE 5)

**Additional Curriculum for Liberal Education (7-9 credits)**

CLE Area 2 (Ideas, Cultural Trad.) – select from approved list

\_\_\_\_\_ (3) \_\_\_\_\_  
 \_\_\_\_\_ (3) \_\_\_\_\_

CLE Area 6 (Creativity/Aesthetic Exp.) – select from approved list

\_\_\_\_\_ (1 or 3) \_\_\_\_\_

**Specific Course Requirements for ENSC Major (53 credits)**

__ BIOL 1105	(3)	Principles of Biology
__ BIOL 1106	(3)	Principles of Biology
__ CEE 3104	(3)	Intro to Env Engineering
__ CHEM 2535	(3)	Organic Chemistry
__ CHEM 2114	(3)	Analytical Chemistry
__ CHEM 2124	(1)	Analytical Chemistry Lab
__ ALS 1234	(1)	CALS First Year Seminar
__ CSES 3114/3124	(3,1)	Soils, Soils Lab
__ CSES/ENSC 3634	(3)	Physics of Pollution
__ ENSC 4414	(2)	Envir. Monitoring and Analysis
__ CSES/ENSC/CHEM 4734	(3)	Environmental Soil Chemistry
__ CSES/ENSC 4854	(3)	Wetland Soils and Mitigation
__ ENGL 3764	(3)	Technical Writing
__ GEOG 2084 or GEOG 4354	(3)	Intro GIS <i>or</i> Intro Remote Sensing <i>or</i> or FOR 4114 or BSE 4344 Info Tech Nat Res Mgt <i>or</i> GIS for Engineers
__ GEOS 2104 or GEOS 1004	(3)	Elements of Geo or Physical Geo
__ GEOS 4804	(3)	Groundwater Hydrology
__ MATH 2024	(3)	Intermediate Calculus
__ PHYS 2205	(3)	General Physics
__ STAT 3615	(3)	Biological Statistics

**Option Specific Requirements for Water Science and Quality (13 credits)**

__ BIOL 2604	(3)	General Microbiology
__ BIOL 2614	(1)	General Microbiology Lab
__ FOR 3104	(3)	Princ of Watershed Hydro
__ CSES/ENSC/BIOL/ CEE 4164	(3)	Env. Microbiology
__ CSES/ENSC 4314	(3)	Water Quality

**Technical Electives (Choose at least 12 credits from the list below (or approved by the ENSC Program Director).**

__ AAEC 3324	(3)	Env. Sust Development Econ
__ BIOL/ENT 4354	(4)	Aquatic Entomology
__ BIOL 4004	(4)	Freshwater Ecology
__ CSES/ENSC 4444	(3)	Managed Ecosystems
__ CSES/ENSC 4764	(3)	Bioremediation
__ FIW 4624	(3)	Marine Ecology
__ FIW 4534	(3)	Ecology/Manage Wetlands
__ FOR 2324	(1)	Dendrology
__ FOR 4354	(3)	Forest Soils and Watershed Mgt
__ FOR 4374	(3)	Forested Wetlands
__ NR/ALS 4614	(2)	Watershed Assessment
__ *CSES 4964	(1-3)	Experiential Learning (study abroad, internship, or undergraduate research)

No courses may be taken P/F except FREE ELECTIVES.

\* No more than 3 credits of experiential learning can be used as a technical elective.

**FREE ELECTIVES (minimum 4-6 credits toward graduation)**

\_\_\_\_\_ ( ) \_\_\_\_\_  
 \_\_\_\_\_ ( ) \_\_\_\_\_

**TOTAL CREDITS REQUIRED FOR GRADUATION = 120  
with required minimum 2.0 GPA overall and in-major**

**Note:** Some courses listed on this checksheet may have prerequisites. Be sure to consult the University Catalog or check with your Academic Advisor.

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**Satisfactory Progress Toward Degree**

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:

1. Having a grade point average of at least 2.0, overall and in major (includes classes in BIOL, BSE, CEE, CHEM, CSES, ENSC, ENT, FIW, FOR, GEOS, PHYS)
2. Declaring an Option within the ENSC Major
3. Passing the following:
  - At least 24 credits that apply to the Curriculum for Liberal Education
  - BIOL 1105 and 1106
  - ALS 1234, CSES 3114 and 3124
  - ENSC 3604
  - 12 credits of CHEM
  - 9 credits of MATH and/or STAT

Note: A sequence of two foreign language courses is required unless two years of the same high school foreign language or 6 transfer credits of the same foreign language are completed. These credits **do not** count toward graduation requirements.

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