

**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 2016**

**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)	Freshman English (CLE 1)
___ Engl 1106	(3)	Freshman English (CLE 1)
___ ENSC 3604	(3)	Fund Env Science (CLE 7)
___ Math 1016	(3)	Calculus with Trig I (CLE 5)
___ Math 2015	(3)	Calculus with Trig II (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 (49 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 2545	(1)	Organic Chemistry Lab
___ CHEM 2114	(3)	Analytical Chemistry
___ CHEM 2124	(1)	Analytical Chemistry Lab
___ CSES 1004	(1)	Introduction to CSES
___ CSES 3114/3124	(3,1)	Soils, Soils Lab
___ CSES/ENSC 3634	(3)	Physics of Pollution
___ CSES/ENSC/CHEM 4734	(3)	Environmental Soil Chemistry
___ CSES/ENSC 4854	(3)	Wetland Soils and Mitigation
___ ENGL 3764	(3)	Technical Writing
___ GEOG 4084 or GEOG 4354	(3)	Intro GIS <i>or</i> Intro Remote Sensing <i>or</i>
<i>or</i> FOR 4114 or BSE 4344		Info Tech Nat Res Mgt <i>or</i> GIS for Engineers
___ GEOS 4804	(3)	Groundwater Hydrology
___ MATH 2016	(3)	Calculus with Trig II
___ PHYS 2205	(3)	General Physics
___ STAT 3615	(3)	Biological Statistics

**Option Specific Requirements for Water Science and Quality (16 credits)**

___ BIOL 2604	(3)	General Microbiology
___ BIOL 2614	(1)	General Microbiology Lab
___ CSES/GEOG/GEOS 3304	(3)	Geomorphology
___ CSES/ENSC/BIOL/ CEE 4164	(3)	Env. Microbiology
___ CSES/CEE 4594	(3)	Soil and Groundwater Poll
___ CSES/ENSC 4314	(3)	Water Quality

**Technical Electives (Choose at least 13 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 Hydrology
___ FOR 4374	(3)	Forested Wetlands
___ NR/ALS 4614	(3)	Watershed Assessment

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

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

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

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

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**ELIGIBILITY FOR CONTINUED ENROLLMENT**

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
  - CSES 1004, 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.

Note: Some courses on this checksheet may have prerequisites. Please check the Catalog.