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

- AAEC 1005 (3) Econ of Food & Fiber (CLE 3)  
- or ECON 2005 (3) Principles of Economics (CLE 3)  
- AAEC 1006 (3) Econ of Food & Fiber (CLE 3)  
- or ECON 2006 (3) 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)  

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) Environ. Monitoring and Analysis  
- CSES/ENSC/CEE 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 or Intro Remote Sensing or  
  or FOR 4114 or BSE 4344 Info TechNat Res Mgt or 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 Land Restoration and Management (19 credits)

- BIOL 2604 (3) General Microbiology  
- BIOL 2614 (1) General Microbiology Lab  
- CSES/ENSC 3644 (3) Plant Mat for Env Restoration  
- CSES 4134 (3) Soil Genesis and Classification  
- CSES/ENSC/BIOL/CEE 4164 (3) Env. Microbiology  
- CSES 4774 (3) Rec. Disturbed Lands or  
  or CSES 4644 Land-Based Waste Treatment  
- CSES/ENSC 4764 (3) Bioremediation  

Technical Electives (Choose at least 6 credits from the list below (or approved by the ENSC Program Director).

- AAEC 3324 (3) Env. Sust Development Econ  
- BIOL 3114 (1) Field and Lab Ecology  
- CSES 3144 (3) Soil Description and Interp  
- CSES 4214 (3) Soil Fertility and Manage  
- CSES/ENSC 4444 (3) Managed Ecosystems  
- CSES 4774 (3) Reclamation of Disturbed Lands  
- FIW 4534 (3) Ecology/Manage Wetlands  
- FREC 2324 (1) Dendrology Laboratory  
- FREC 4334 (3) Agroforestry  
- FREC 4354 (3) Forest Soils and Watershed Mgt  
- FREC 4374 (3) Forested Wetlands  
- UAP 4374 (3) Land Use/Env Policy Planning  
- *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 (includes classes in BIOL, BSE,  
CEE, CHEM, CSES, ENSC, ENF, FIW, FREC, GEOS, PHYS).  

Note: Some courses listed on this checksheet may have prerequisites. Be sure to  
consult the University Catalog or check with your Academic Advisor.
College of Agriculture & Life Sciences — Department of Crop and Soil Environmental Sciences - BS ENSC LRM
Land Restoration and Management Option; Students graduating calendar year 2019

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. Declaring an Option within the ENSC Major
2. 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.

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