Pathways to General Education (44-47 credits)

1. Discourse
   ___ (3, foundational) ENGL 1105: First-Year Writing – F, S
   ___ (3, foundational) ENGL 1106: First-Year Writing – F, S, SI, SII
   ___ (3, advanced/applied) ____________________________ – F, S, W, SI, SII

2. Critical Thinking in the Humanities
   ___ (3) ____________________________ – F, S, W, SI, SII
   ___ (3) ____________________________ – F, S, W, SI, SII

3. Reasoning in the Social Sciences
   ___ (3) AAEC 1005: Economics of the Food and Fiber System or ECON 2005: Principles of Economics – F, S
   ___ (3) ____________________________ – F, S, W, SI, SII

4. Reasoning in the Natural Sciences
   ___ (3) *CHEM 1035: General Chemistry – F, S, SI, SII
   ___ (3) *CHEM 1045: General Chemistry Laboratory – F, S, SI, SII
   ___ (3) *CHEM 1036: General Chemistry – F, S, SI, SII
   ___ (1) *CHEM 1046: General Chemistry Laboratory – S, SI, SII

5. Quantitative and Computational Thinking
   ___ (3, foundational) - MATH 1025: Elementary Calculus – F, S, SI, SII
   ___ (3, foundational) - *MATH 1026: Elementary Calculus – F, S, SII
   ___ (3, advanced) - *STAT 3615: Biological Statistics – F, S, SI, SII

6. Critique and Practice in Design and the Arts
   ___ (3, design) ____________________________ – F, S, W, SI, SII
   ___ (3, arts) ____________________________ – F, S, W, SI, SII

7. Critical Analysis of Identity and Equity in the United States
   (may be double-counted with another core concept)
   ___ (3) ____________________________ – F, S, W, SI, SII

Common Degree Core Requirements (20)

___ (1) ALS 1234: CALS First Year Seminar or SPES 1004: First Year Seminar – F
___ (3) BIOL 1105: Principles of Biology – F, W, SI
___ (3) BIOL 1106: Principles of Biology – S, W, SII
___ (3) *CSES/ENSC 3114 or GEOS 3614: Soils – F
___ (1) *CSES/ENSC 3124 or GEOS 3624: Soils Laboratory – F
___ (3) *ENSC 3604: Fundamentals of Environmental Science – F
___ (3) GEOS 1004: Introduction to Earth Sciences or GEOS 2104: Elements of Geology – F, S

Major Requirements for Ecological Restoration (21 credits)

___ (3) *BIOL/HORT 2304: Plant Biology – F, S
___ (3) BIOL 2804: Ecology* – F, S, SII
___ (3) BIOL 3204: Plant Taxonomy* - S
___ (3) ENSC 4244: Ecological Restoration* - F
___ (3) *CSES/ENSC 3644: Plants for Environmental Restoration* – S
___ (3) *CSES/ENSC 4774: Reclamation of Disturbed Lands – F (even years)
___ (3) PPWS 4604: Biological Invasions* - F

Ecology Restricted Electives (choose 9 credits*)

___ (3) ALS 3404: Ecological Agriculture – F
___ (3) *BIOL 4004: Freshwater Ecology – F
___ (3) BIOL 4114: Global Change Ecology*
___ (3) *CSES/FREC 4334: Agroforestry – F
___ (3) *CSES/ENSC 4764: Bioremediation - F
___ (3) * CSES 4544: Forage Crop Ecology - S
___ (3) HORT/FREC 2134: Plants & Greenspaces for Urban Communities–F
Plant and Soil Sciences Restricted Electives (choose 6 credits)
___ (3) HORT 2244: Plant Propagation – S
___ (3) *HORT 3324: Herbaceous Landscape Plants - F
___ (3) *CSES 4064: Soil Microbiology – F
___ (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)
___ (3) AAEC 3314: Environmental Law - S
___ (3) *AAEC 3324: Environmental Sustain Dev Econ - S
___ (3) ALCE 4304: Community Education & Development - F
___ (3) *UAP/PSCI 3344: Global Environmental Issues – F, S
___ (3) UAP 3354: Environmental Policy & Planning – F
___ (3) UAP 4344: Law of Critical Environmental Areas – S

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
___ (3) *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
___ (3) GEOG/WATR 2004: Water, Environment & Society - F
___ (3) GEOG 3104: Environmental Problems, Population & Develop - S
___ (3) *GEOG/GEOS 4084: Modeling with GIS – F, S
___ (3) *GEOG 4314: Analysis in GIS – S
___ (3) HORT/FREC 2134: Plants & Greenspaces in Urban Communities – F
___ (3) HORT 3325: Woody Landscape Plants - F
___ (3) HORT 3326: Woody Landscape Plants - S
___ (3) *UAP 4374: Land Use and Environmental Policy & Planning – F

Free Electives (number needed to complete 120 credits)
___ ( ) _________________________________
___ ( ) _________________________________
___ ( ) _________________________________

Notes:
- Total Hours Required: 120
- GPA Requirements:
  - Overall GPA: 2.0 each semester
  - In-major GPA: 2.0 By Graduation
    - Includes classes in: BIOL, CHEM, CSES, ENSC, FREC, GEOS, PHYS
  - Pass CHEM 1035 and 1036 with grade of C- or better
- Upon having attempted 60 semester credits (including transfer, advanced placement, advanced standing and credit by examination), satisfactory progress toward a B.S. degree in ENSC will include passing the following:
  - At least 24 credits that apply to the Pathways of General Education
  - BIOL 1105, 1106, CSES/ENSC 3114, 3124, ENSC 3604, SPES 1004 or ALS 124 and
  - 8 credits of CHEM with 6 credits of MATH and/or STAT
- Language Study Requirement: a sequence of two foreign language courses is required or equivalent transfer/high school credit (6cr.)
- *Some courses listed on the checklist may have prerequisites or corequisites; please consult the University Course Catalog or check with your advisor.
- F (fall), S (spring), W (winter), SI (summer I), and SII (summer II) indicate the term a course is offered. Course offerings are subject to change