

**DEPARTMENT OF CROP, SOIL, AND ENVIRONMENTAL SCIENCES**  
**Check Sheet for Environmental Soil and Water Science Major (ESWSBS)**  
**2020-2021**

STUDENT \_\_\_\_\_ STUDENT'S ID \_\_\_\_\_ ADVISOR \_\_\_\_\_

**COMMUNICATIONS (12 hrs)**

- \_\_\_ ENGL 1013
- \_\_\_ ENGL 1023
- \_\_\_ COMM 1313
- \_\_\_ CSES 3023 (FA, Jr or Sr, COMM 1313) or ACOM 3143

**US HISTORY OR GOVERNMENT (3 hrs)**

- \_\_\_ HIST 2003 or \_\_\_ HIST 2013 or \_\_\_ PLSC 2003

**MATHEMATICS (6 hrs)**

- \_\_\_ MATH 1203
- \_\_\_ MATH 1213 (higher level MATH is encouraged for students with ACT >26 and considering graduate school)

**PHYSICAL, CHEMICAL, AND BIOLOGICAL SCIENCES (35 hrs)**

- \_\_\_ BIOL 1543 and \_\_\_ BIOL 1541L Principles of Biology
- \_\_\_ BIOL 2013 and \_\_\_ BIOL 2011L General Microbiology
- \_\_\_ BIOL 3863 and \_\_\_ BIOL 3861L General Ecology **OR**
- \_\_\_ ENSC 3223 and \_\_\_ ENSC 3221L Ecosyst Assess (FA-E, BIOL 1543)
- \_\_\_ CSES 1203 Intro to Plant Sciences
- \_\_\_ CHEM 1103 and \_\_\_ CHEM 1101L University Chemistry I
- \_\_\_ CHEM 1123 and \_\_\_ CHEM 1121L University Chemistry II
- \_\_\_ CHEM 2613 and \_\_\_ CHEM 2611L Organic Phys. Chem. **OR**
- \_\_\_ CHEM 3603 and \_\_\_ CHEM 3601L Organic Chem I
- \_\_\_ GEOS 1113 and \_\_\_ GEOS 1111L General Geology
- \_\_\_ PHYS 2013 and \_\_\_ PHYS 2011L College Physics I (MATH 1213)

**FINE ARTS AND HUMANITIES (6 hrs)**

Fine Arts Choose one from the following courses:

- \_\_\_ ARCH 1003 Architecture Lecture
- \_\_\_ ARHS 1003 Art Lecture
- \_\_\_ COMM 1003 Film Lecture
- \_\_\_ DANC 1003 Dance
- \_\_\_ ENGL 2023 Creative Writing I
- \_\_\_ HUMN 2114H Honors Birth of Modern Culture 1600-1900
- \_\_\_ LARC 1003 The American Landscape
- \_\_\_ MLIT 1003 Music Lecture
- \_\_\_ MLIT 1013 Music Lecture for Music Majors
- \_\_\_ THTR 1003 Theater Appreciation
- \_\_\_ THTR 1013 Musical Theater Appreciation

Humanities Choose one from the following courses:

- \_\_\_ AAST 2023 The African American Experience
- \_\_\_ ARCH 1013 Diversity and Design
- \_\_\_ CLST 1003 Intro to Classical Studies: Greece
- \_\_\_ CLST 1013 Intro to Classical Studies: Rome
- \_\_\_ COMM 1233 Media, Community and Citizenship
- \_\_\_ ENGL 1213 Introduction to Literature
- \_\_\_ GNST 2003 Intro to Gender Studies
- \_\_\_ HUMN 1124H Honors Equilibrium of Cultures
- \_\_\_ HUMN 2124H Honors 20<sup>th</sup> Century Global Culture
- \_\_\_ MUSY 2003 Music in World Cultures
- \_\_\_ PHIL2003 Introduction to Philosophy
- \_\_\_ PHIL 2103 Introduction to Ethics
- \_\_\_ PHIL 2203 Logic
- \_\_\_ PHIL 3103 Ethics and the Professions
- \_\_\_ WLIT 1113 World Literature
- \_\_\_ WLIT 1123 World Literature II
- \_\_\_ Any Intermediate I Foreign Language

**SOCIAL SCIENCES (9 hrs)**

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|----------------|----------------|---------------|
| ___ AGEC 1103  | ___ AGEC 2103  | ___ COMM 1023 |
| ___ ANTH 1023  | ___ ECON 2013  | ___ ECON 2023 |
| ___ ECON 2143  | ___ GEOS 1123  | ___ GEOS 2003 |
| ___ HDF5 1403  | ___ HDF5 2413  | ___ HIST 1113 |
| ___ HIST 1123  | ___ HIST 2003  | ___ HIST 2013 |
| ___ HUMN 1114H | ___ HUMN 2114H | ___ PLSC 2003 |
| ___ PLSC 2013  | ___ PLSC 2203  | ___ PSYC 2003 |
| ___ RESM 2853  | ___ HDF5 2603  |               |
| ___ SOCI 2013  | ___ SOCI 2033  |               |

**DEPARTMENTAL REQUIREMENTS (32-33 hrs)**

**ENVIRONMENTAL SCIENCE CORE (17 hrs, required)**

- \_\_\_ ENSC 1003 Environmental Science (FA, SP)
- \_\_\_ ENSC 1001L Environmental Science Lab (FA, SP)
- \_\_\_ ASTM 2903 Ag & Human Environ. Sci. Applications of Microcomputers (SP, SU, FA)
- \_\_\_ CSES 2203 Soil Science (FA, SP, MATH 1203, CHEM 1103 or CHEM 1074)
- \_\_\_ CSES 2201L Soil Science Lab (FA, SP, co-req CSES 2203)
- \_\_\_ ENSC 3003 Introduction to Water Science (SP, MATH 1203, ENSC 1003 or other science (see syllabus))
- \_\_\_ STAT 2303 Principles of Statistics (SP, SU, FA, MATH 1203)

**Select 2<sup>nd</sup> SOIL SCIENCE core (3-4 hrs)**

- \_\_\_ CSES 3214 Soil Resources w/Lab Component (SP-O, CSES 2203,
- \_\_\_ CSES 4224 Soil Fertility w/Lab Component (FA, CSES 2203, CHEM 1123/1121L or CHEM 1073/1071L and CHEM 2613/2611L)
- \_\_\_ CSES 4253 Soil Classification & Genesis w/Lab Component (FA-O, CSES 2203/2201L)
- \_\_\_ CSES 4553 Wetland Soils (SP-O, CSES 2203, CSES 2201L or CSES 355V)
- \_\_\_ ENSC 3263 Soil & Water Conservation (FA-E, CSES 2203)
- \_\_\_ ENSC 4263 Env. Soil Science (SP-E, CSES 3214, PHYS 2013/2011L)

**Select 2<sup>nd</sup> WATER SCIENCE core (3 hrs)**

- \_\_\_ ENSC 4023 Water Quality (FA, CHEM 1123/1121L, BIOL 1543/1541L)
- \_\_\_ GEOS 3333 Oceanography (SP-E, junior standing)
- \_\_\_ GEOS 4033 Hydrogeology w/Lab Component (SP, MATH 2554, MATH 2043, GEOL 3514)
- \_\_\_ GEOS 4363 Climatology (SP) GEOS 1133 or GEOS 4353
- \_\_\_ GEOS 4473 Applied Climatology (FA)

**NATURAL RESOURCES CORE**

**(Select 9 credit hours from the following 2 groups)**

**ENVIRONMENTAL SCIENCE (6-9 hrs)\***

- \_\_\_ ASTM 3153 Surveying in Agriculture and Forestry (FA)
- \_\_\_ CSES 2013 Pest Management (IR)
- \_\_\_ CSES 355V Soil Profile Descriptions (FA, 1 credit, may take twice)
- \_\_\_ CSES 4553 Wetland Soils (SP-O, CSES 2203, CSES 2201L or CSES 355V)
- \_\_\_ CSES 462V Internship (SP, SU, FA, Jr. standing, 1-3 credit hours)
- \_\_\_ ENSC 3103 Plants & Environmental Restoration (FA-E, CSES 1203 or HORT 2003 or BIOL 1613)
- \_\_\_ ENSC 3263 Soil & Water Conservation (FA-E, CSES 2203)
- \_\_\_ ENSC 3603 GIS for Environmental Science (SP-O, CSES 2203)
- \_\_\_ ENSC 4034 Analysis of Environmental Contaminants w/Lab Component (SP-E, CHEM 2613/2611L or higher CHEM))
- \_\_\_ ENSC 4021L Water Quality Lab (FA, ENSC 4023)
- \_\_\_ ENSC 4401 Professional Certification Preparation (SP)
- \_\_\_ GEOS 3043 Sustaining Earth (FA, SP, SU, Jr. Standing)
- \_\_\_ GEOS 3543 Geographic Information Science (FA, SP, online)

**ENVIRONMENTAL STUDIES (0-3 hours)**

- \_\_\_ AGECE 3413 Principles Environ. Econ. (SP, AGECE 1103 or ECON 2023)
- \_\_\_ AGECE 3503 Agricultural Law (FA)
- \_\_\_ AGECE 3523 Environmental and Natural Resources Law (SP-E)
- \_\_\_ ENSC 3933 Environmental Ethics (SP-O, ENSC 1003 or PHIL 2003 or PHIL 2103)
- \_\_\_ SOCI 4603 Environmental Sociology (SP)

**GENERAL ELECTIVES (16 - 17 hrs)**

- \_\_\_ UNIV 1001 University Perspectives

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**OTHER REQUIREMENTS FOR B.S. DEGREE:**

\*One 3-hr study abroad course, either Experiential Learning in Indian Agriculture (Jan) or Sustainability in the Eurozone Agro-Food Chain (May), which are both taken under AFLS 401V/401VH, can be substituted for 3 hours of Natural Resources core  
 120 total semester hours of which:  
 9 hrs outside the Departmental Alpha Codes within the Bumpers College  
 36 semester hours in upper division courses  
 Courses taken within major cannot be taken for duplicate credit  
 2.00 GPA