**DEPARTMENT OF CROP, SOIL, AND ENVIRONMENTAL SCIENCES**

**Check Sheet for Environmental Soil and Water Science Major (ESWSBS)**

**2019-2020**

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

**COMMUNICATIONS** **(12 hrs)**

\_\_\_\_ ENGL 1013

\_\_\_\_ ENGL 1023

\_\_\_\_ COMM 1313

\_\_\_\_ CSES 3023 (FA, Jr or Sr, COMM 1313) or AGED 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)**

Category A: 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

Category B: 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 20th 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)**

\_\_\_\_ AGEC 1103 \_\_\_\_ AGEC 2103 \_\_\_\_ COMM 1023

\_\_\_\_ ANTH 1023 \_\_\_\_ ECON 2013 \_\_\_\_ ECON 2023

\_\_\_\_ ECON 2143 \_\_\_\_ GEOS 1123 \_\_\_\_ GEOS 2003

\_\_\_\_ HDFS 1403 \_\_\_\_ HDFS 2413 \_\_\_\_ HIST 1113

\_\_\_\_ HIST 1123 \_\_\_\_ HIST 2003 \_\_\_\_ HIST 2013

\_\_\_\_ HUMN 1114H \_\_\_\_ HUMN 2114H \_\_\_\_ PLSC 2003

\_\_\_\_ PLSC 2013 \_\_\_\_ PLSC 2203 \_\_\_\_ PSYC 2003

\_\_\_\_ RESM 2853 \_\_\_\_ HDFS 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)

\_\_\_\_ AGME 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)

\_\_\_\_ AGST 4023 Principles of Experimentation (FA, MATH 1203) **OR**\_ STAT 2303 Principles of Statistics (SP, SU, FA, MATH 1203)

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**Select 2nd 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 2nd 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)\***

\_\_\_\_ AGME 3153 Surveying in Agriculture and Forestry (FA)

\_\_\_\_ CSES 2013 Pest Management (SP)

\_\_\_\_ 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, 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)**

\_\_\_\_ AGEC 3413 Principles Environ. Econ. (SP, AGEC 1103 or ECON 2023)

\_\_\_\_ AGEC 3503 Agricultural Law (FA)

\_\_\_\_ AGEC 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