

**DEPARTMENT OF CROP, SOIL, AND ENVIRONMENTAL SCIENCES**  
**Check Sheet for Environmental Soil and Water Science Major (ESWSBS)**  
**2007 - 2008**

STUDENT \_\_\_\_\_

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

ADVISOR \_\_\_\_\_

**COMMUNICATIONS (12-15 hrs)**

- \_\_\_ ENGL 1013
- \_\_\_ ENGL 1023
- \_\_\_ ENGL 2003, unless exempt
- \_\_\_ COMM 1313
- \_\_\_ CSES 3023 (FA, Jr or Sr.) or AGED 3142/3141L

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

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

**MATHEMATICS AND STATISTICS (6 hrs)**

- \_\_\_ MATH 2043 Survey of Calculus (MATH 1203)
- \_\_\_ AGST 4023 or \_\_\_ STAT 2303 or \_\_\_ STAT 2023

**PHYSICAL, CHEMICAL, AND BIOLOGICAL SCIENCES (35-36 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, even)
  
- \_\_\_ BIOL 1613 and \_\_\_ BIOL 1611L Plant Biology **OR**
- \_\_\_ 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 Physiological Chemistry
  
- \_\_\_ GEOL 1113 and \_\_\_ GEOL 1111L General Geology
- \_\_\_ PHYS 2013 and \_\_\_ PHYS 2011L College Physics I (MATH 1213)

**FINE ARTS AND HUMANITIES (choose 6 hrs from 2 of the 4 areas)**

- \_\_\_ ARCH 1003
- \_\_\_ ARTS 1003
- \_\_\_ DANC 1003
- \_\_\_ HUMN 1003
- \_\_\_ MLIT 1003
  
- OR
- \_\_\_ PHIL 2003
- \_\_\_ PHIL 2203
- \_\_\_ PHIL 2103
- \_\_\_ PHIL 3103
  
- OR
- \_\_\_ CLST 1003
- \_\_\_ HUMN 2124H
- \_\_\_ WLIT 1113
- \_\_\_ CLST 1013
- \_\_\_ HUMN 1124H
- \_\_\_ WLIT 1123
  
- OR
- \_\_\_ any foreign language 2003
- \_\_\_ HUMN 2003
- \_\_\_ HUMN 3923H

**SOCIAL SCIENCES (9 hrs)**

- \_\_\_ AGE 1103
- \_\_\_ ANTH 1023
- \_\_\_ ECON 2023
- \_\_\_ GEOG 1123
- \_\_\_ GEOG 2103
- \_\_\_ HESC 1403
- \_\_\_ HIST 1113H
- \_\_\_ HIST 2003
- \_\_\_ HUMN 1114H
- \_\_\_ PLSC 2003
- \_\_\_ PLSC 2203
- \_\_\_ RSOC 2603
- \_\_\_ SOCI 2033
- \_\_\_ HIST 1013
- \_\_\_ AGE 2103
- \_\_\_ ECON 2013
- \_\_\_ ECON 2143
- \_\_\_ GEOG 2023
- \_\_\_ GEOG 2203
- \_\_\_ HESC 2413
- \_\_\_ HIST 1123H
- \_\_\_ HIST 2013
- \_\_\_ HUMN 2114H
- \_\_\_ PLSC 2013
- \_\_\_ PSYC 2003
- \_\_\_ SOCI 2013
- \_\_\_ HIST 1003

**DEPARTMENTAL REQUIREMENTS (29-31 hrs)**

**ENVIRONMENTAL SCIENCE CORE (11 hrs, required)**

- \_\_\_ CSES 1011 Introduction to CSES (FA, must have < 24 credits)
- \_\_\_ ENSC 1003 Environmental Science (FA)
- \_\_\_ CSES 2203 Soil Science (FA, CHEM 1103 or CHEM 1074)
- \_\_\_ CSES 2201L Soil Science Lab (FA, coreq CSES/ENSC 2203)
- \_\_\_ ENSC 3003 Introduction to Water Science (FA, ENSC 1003 or other science (see syllabus) and ENGL 1023)

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

- \_\_\_ CSES 3214/3210L Soil Resources w/Lab (SP odd, CSES 2203)
- \_\_\_ CSES 4224/4220L Soil Fertility w/Lab (FA, CSES 2203)
- \_\_\_ CSES 4253/4250L Soil Classification & Genesis w/Lab (SP, CSES 2203)
- \_\_\_ CSES/ENSC 4263 Env. Soil Science (SP odd, CSES 3214)

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

- \_\_\_ ENSC 4023/4020L Water Quality w/Lab (FA, ENSC 3003)
- \_\_\_ GEOG 3333 Oceanography (SP, junior standing)
- \_\_\_ GEOL 4033/4030L Hydrogeology w/Lab (SP, MATH 2564, GEOL 3513/3511L)
- \_\_\_ BIOL 4814/4810L Limnology w/Lab (FA odd, CHEM 1123, 12 hrs BIOL)

**NATURAL RESOURCES CORE**

**(Select 12 credit hours from at least 2 of the following 3 groups)**

**METHODS/TECHNIQUES IN ENVIRONMENTAL SCIENCE**

- \_\_\_ CSES 355V Soil Profile Descriptions (FA, 1 credit, may take twice)
- \_\_\_ CSES/BENG 4803 Precision Ag. (FA odd, MATH 1213, stats, computer)
- \_\_\_ AGME 3153 Surveying in Agriculture and Forestry (FA)
- \_\_\_ ENSC 3603 GIS for Environmental Science (SP odd, CSES 2203)
- \_\_\_ ENSC 4034/4030L Analysis of Environmental Contaminants (SP even, CSES 2203, ENSC 3003)

**ENVIRONMENT & SOCIETY**

- \_\_\_ AGE 3413 Principles of Environmental Economics (SP, AGE 1103 or ECON2023)
- \_\_\_ AGE 3503 Agricultural Law (SP)
- \_\_\_ ENSC 3933 Environmental Ethics (SP odd, ENSC 1003 or PHIL 2003 or PHIL 2103, same as PHIL 3113)
- \_\_\_ RSOC/SOCI 4603 Environmental Sociology (SP)

**ENVIRONMENTAL MANAGEMENT**

- \_\_\_ CSES 2013 Pest Management (SP)
- \_\_\_ ENSC 3103 Plants & Environmental Restoration (FA odd, CSES 1203 or HORT 2003)
- \_\_\_ ENSC 3263/ 3260L Env. Soil & Water Conservation w/Lab (SP, CSES 2203)

**GENERAL ELECTIVES (18-24 hrs)**

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

- 124 total semester hours of which:
  - 9 hrs outside the Departmental Alpha Codes within the Bumpers College
  - 39 semester hours in upper division courses
  - no more than 68 lower division transfer hours
  - no more than 25% (31 hrs) of D grades
  - 30 semester hours in Bumpers College at UA
  - 2.00 GPA