

DEPARTMENT OF CROP, SOIL, AND ENVIRONMENTAL SCIENCES
Check Sheet for Environmental Soil and Water Science Major (ESWSBS)
2011 - 2012

STUDENT _____ STUDENT'S ID _____ ADVISOR _____

COMMUNICATIONS (12 hrs)

- ___ ENGL 1013 if exempt see adviser for communication courses
- ___ ENGL 1023, if exempt see adviser for communication courses
- ___ COMM 1313
- ___ CSES 3023 (FA, Jr or Sr/COMM 1313) or AGED 3142/3141L

US HISTORY OR GOVERNMENT (3 hrs)

- ___ HIST 2003 or ___ HIST 2013 or ___ PLSC 2003

MATHEMATICS AND STATISTICS (9 hrs)

- ___ MATH 1203
- ___ MATH 1213 (higher level MATH is encouraged for students with ACT >26 and considering graduate school)
- ___ AGST 4023 or ___ STAT 2023 or ___ STAT 2303

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 Phys. Chem. **OR**
- ___ CHEM 3603 and ___ CHEM 3601L Organic Chem I
- ___ GEOL 1113 and ___ GEOL 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
- ___ DRAM 1003 Theater Lecture
- ___ LARC 1003 The American Landscape
- ___ MLIT 1003 Music Lecture

Category B: Humanities *Choose one from the following courses:*

- ___ ARCH 1013 Diversity and Design
- ___ CLST 1003 Intro to Classical Studies: Greece
- ___ CLST 1013 Intro to Classical Studies: Rome
- ___ HUMN 1124H Honors Equilibrium of Cultures
- ___ HUMN 2124H Honors 20th Century Global Culture
- ___ HUMN 2003 Intro to Gender Studies
- ___ 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
- ___ FLAN 2003 Any Intermediate I Foreign Language

SOCIAL SCIENCES (9 hrs)

- ___ AGEC 1103 ___ AGEC 2103
- ___ ANTH 1023 ___ ECON 2013
- ___ ECON 2023 ___ ECON 2143
- ___ GEOG 1123 ___ GEOG 2003
- ___ HESC 1403 ___ HESC 2413
- ___ HIST 1113H ___ HIST 1123H
- ___ HIST 2003 ___ HIST 2013
- ___ HUMN 1114H ___ HUMN 2114H
- ___ PLSC 2003 ___ PLSC 2013
- ___ PLSC 2203 ___ PSYC 2003
- ___ RECR 2853 ___ RSOC 2603
- ___ SOCI 2013 ___ SOCI 2033

DEPARTMENTAL REQUIREMENTS (29-31 hrs)

ENVIRONMENTAL SCIENCE CORE (11 hrs, required)

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

Select 2nd SOIL SCIENCE core (3-4 hrs)

- ___ CSES 3214 Soil Resources w/Lab Component (SP odd, CSES 2203, BIOL 2013/2011L)
- ___ CSES 4224 Soil Fertility w/Lab Component (FA, CSES 2203, CHEM 1123/1121L)
- ___ CSES 4253 Soil Classification & Genesis w/Lab Component (SP even, CSES 2203)
- ___ ENSC 4263 Env. Soil Science (SP even, CSES 3214, PHYS 2013/2011L)

Select 2nd WATER SCIENCE core (3-4 hrs)

- ___ ENSC 4023 Water Quality w/Lab Component (FA, CHEM 1123/1121L, BIOL 1543/1541L)
- ___ GEOG 3333 Oceanography (SP Even, junior standing)
- ___ GEOL 4033 Hydrogeology w/Lab Component (SP, MATH 2564, MATH 2043, GEOL 3513/3511L)
- ___ BIOL 4814 Limnology w/Lab Component (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)
- ___ AGME 3153 Surveying in Agriculture and Forestry (FA)
- ___ ENSC 3603 GIS for Environmental Science (SP odd, CSES 2203)
- ___ ENSC 4034 Analysis of Environmental Contaminants w/Lab Component (SP even, CSES 2203, ENSC 3003)
- ___ GEOS 3543 Geographic Information Science (FA, SP)

ENVIRONMENT & SOCIETY

- ___ AGEC 3413 Principles of Environmental Economics (SP, AGEC 1103 or ECON 2023)
- ___ AGEC 3503 Agricultural Law (SP)
- ___ AGEC 3523 Environmental and Natural Resources Law (SP, even)
- ___ 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 or BIOL 1613)
- ___ ENSC 3263 Env. Soil & Water Conservation w/Lab Component (SP odd, CSES 2203)
- ___ ENSC 4401 Professional Certification Preparation (SP)
- ___ GEOG 3003 Conserv. Natural Resources (FA, SP, SU, Jr. Standing)

GENERAL ELECTIVES (18-21 hrs)

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 and 2.00 GPA