

**UNIVERSITY OF ARKANSAS**  
**Dale Bumpers College of Agricultural, Food and Life Sciences**  
**NATURAL RESOURCES MANAGEMENT MINOR**  
**2019 - 2020**

\* A student planning to minor in Natural Resources Management must notify the program adviser for consultation and more detailed information.

\* The Natural Resources Management Minor will consist of a total of 18 hours to be comprised of the following required and optional courses. No more than 9 hours can be counted towards a Natural Resources Management minor with an ESWS major.

**Required Courses**

**(7 hours)**

\_\_\_ ENSC 1001L Environmental Science Laboratory (FA, SP)  
 \_\_\_ ENSC 1003 Environmental Science (FA, SP)

**AND**

\_\_\_ CSES 2203 Soil Science (FA, SP, MATH 1203, CHEM 1103 or CHEM 1074) **OR**  
 \_\_\_ ENSC 3003 Introduction to Water Science (SP, MATH 1203, ENSC 1003 or other sci.)

**Optional Courses**

**Select the remaining 11 hours, with at least 8 hours 3000-level or above.**

\_\_\_ AGEC/ENSC 3413 Principles of Environmental Economics (SP, AGEC 1103 or ECON 2023)  
 \_\_\_ AGEC 3503 Agricultural Law I (FA)  
 \_\_\_ AGEC 3523 Environmental and Natural Resources Law (SP even)  
 \_\_\_ BIOL 3861L General Ecology Lab (FA, BIOL 3863)  
 \_\_\_ BIOL 3863 General Ecology (SP, FA - 7 hours of biological sciences)  
 \_\_\_ CSES 1203 Plant Science (SP, FA), CSES 2103 Crop Science (SP), **or** BIOL1613/1611L (SP, SU)  
 \_\_\_ CSES 2013 Pest Management (SP)  
 \_\_\_ CSES 2201L Soil Science Laboratory (FA, SP, pre or co-req CSES 2203)  
 \_\_\_ CSES 2203 Soil Science Laboratory (FA, SP, pre or co-req CSES 2201L)\*\*  
 \_\_\_ CSES 3214 Soil Resources and Nutrient Cycles with Laboratory (SP odd, CSES 2203, BIOL 2013)  
 \_\_\_ CSES 355V Soil Profile Description (FA, 1 hour, may take twice for credit)  
 \_\_\_ CSES 4013 Advanced Crop Science (FA, CSES 2103)  
 \_\_\_ CSES 4133 Ecology and Morphology of Weedy and Invasive Species (FA, CSES 2103 (or HORT 2003) and CSES 2003).  
 \_\_\_ CSES 4224 Soil Fertility with Laboratory (FA)  
 \_\_\_ CSES 4253 Soil Classification and Genesis with Laboratory (FA odd, CSES 2203)  
 \_\_\_ CSES 4553 Wetland Soils (SP odd, CSES 2203)  
 \_\_\_ CSES 462V Internship  
 \_\_\_ ENSC 3103 Plants and Environmental Restoration (FA, CSES 1203, BIOL 1613, or HORT 2003)  
 \_\_\_ ENSC 3223 Ecosystem Assessment (FA even, BIOL 1543)  
 \_\_\_ ENSC 3221L Ecosystem Assessment Laboratory (FA even, BIOL 1543)  
 \_\_\_ ENSC 3263 Soil and Water Conservation (FA)  
 \_\_\_ ENSC 3603 GIS for Environmental Science (SP odd, CSES 2203)  
 \_\_\_ ENSC 4021L Water Quality Laboratory (FA, CHEM 1123/1121L, BIOL 1543/1541L)  
 \_\_\_ ENSC 4023 Water Quality (FA, pre or co-req ENSC 4023)  
 \_\_\_ ENSC 4034 Analysis of Environmental Contaminants w/Lab (SP even, pre or co-req CHEM 2613)  
 \_\_\_ ENSC 4263 Environmental Soil Science (SP even, CSES 3214, PHYS 2013)  
 \_\_\_ ENSC 4401 Professional Certification (SP, junior or senior standing)  
 \_\_\_ GEOS 3043 Sustaining Earth (SP, SU, FA - Junior standing)  
 \_\_\_ GEOS 3543 Geographic Information Science (FA, SP, online)

\*\* If not counted as Required Course

Approved: Student \_\_\_\_\_

Major Advisor \_\_\_\_\_

Minor Advisor \_\_\_\_\_

Date \_\_\_\_\_