

ADD, CHANGE OR DELETE UNIT, PROGRAM REQUIREMENTS, OR ACADEMIC POLICIES

Complete this form consistent with the instructions in Academic Policy 1622.20. Use the form to add, change, or delete a program or unit or to change program policies. Proposed additions and changes must be consistent with Academic Policies 1100.40 and 1621.10 and any other policies which apply.

SECTION I: Approvals

Department / Program Chair _____	Date Submitted _____	Graduate Council Chair _____	Date _____
College Dean _____	Date _____	Faculty Senate Chair _____	Date _____
Honors College Dean _____	Date _____	Provost _____	Date _____
Core Curriculum Committee _____	Date _____	Board of Trustees Approval/Notification Date _____	
University Course and Programs Committee _____	Date _____	Arkansas Higher Education Coordinating Board Approval/Notification Date _____	

SECTION II: Profile Data - Required Information and Name Change Information

Academic Unit: Major/Field of Study Minor Other Unit _____ Policy
 Level: Undergraduate Graduate Law Effective Catalog Year _____

Program changes are effective with the next available catalog. See Academic Policy Series 1622.20

Current Name **BSA, Environmental, Soil and Water Science**

College, School, Division **AFLS** Department Code **CSES**

Current Code (6 digit Alpha) **ESWSBS** Proposed Code (6 digit Alpha) _____
 Prior approval from the Office of the Registrar is required.

Interdisciplinary Program CIP Code **03.0104**
 Prior assignment from Office of Institutional Research is required.

Proposed Name _____
 When a program name is changed, enrollment of current students reflects the new name.

SECTION III: Add a New Program/Unit

For new program proposals, complete Sections II and VII and use as a cover sheet for a full program proposal as described in 'Criteria and Procedures for Preparing Proposals for New Programs in Arkansas.' ADHE
http://www.adhe.edu/divisions/academicaffairs/Pages/aa_academicproposals.aspx

Program proposal uses courses offered by another academic college, and that college dean's office has been notified. The signature of the dean of that academic college is required here: _____

SECTION IV: Eliminate an Existing Program/Unit

Code/Name _____ Effective Catalog Year _____

No new students admitted to program after Term: ____ Year: ____
 Allow students in program to complete under this program until Term: ____ Year: ____

SECTION V: Proposed Changes to an Existing Program or Program Policies

Insert here a statement of the exact changes to be made:

ESWS degree plan changes to meet ACT 747 requirement of 120 credit hours.

1. **Change plant science requirement from “CSES 1203 or BIOL 1613/1611L” to “CSES 1203”. (BIOL 1613/1611L will be an acceptable substitution.) This change clarifies that the basic sciences section is 35 rather than 35 or 36 credit hours, but does not eliminate the ability of students to transfer in BIOL. 1613/1611L.**
2. **Change the requirement for the second water science course from options of 3-4 credit hours to options that are 3 credit hours. BIOL 4814 will be removed as an option. This change alters departmental requirements from 29-31 to 29-30.**
3. **To allow flexibility in choices among courses in the Natural Resources core (12 hours are required) and retain the degree emphasis on science, the courses will be distributed among 2 groups (“Environmental Studies” and “Environmental Science”) and students will choose 12 hours total with a maximum of 6 hours allowed in Environmental Studies.**
4. **Elective hours will be changed so that the total curriculum is 120 hours. The range of credit hours available to a student will depend upon course selections throughout the requirements in the degree plan and is 16-17 credit hours. This leaves enough credit hours for a student to pursue a minor, special problems, honors credits, and/or a selection of courses of general interest. Two popular minors for ESWS majors are Sustainability and Wildlife Habitat. With proper course selections, most ESWS students obtain those minors with nine credit hours in addition to the major (Sustainability) and 11 additional credit hours (Wildlife Habitat) because of course overlap with the ESWS major.**

Check if either of these boxes apply and provide the necessary signature:

- Program change proposal adds courses offered by another academic college, and that college dean’s office has been notified. The signature of the dean of that academic college is required here: _____
- Program change proposal deletes courses offered by another academic college, and that college dean’s office has been notified. The signature of the dean of that academic college is required here: _____

Check all the boxes that apply and complete the required sections of the form:

- Change of Name and Code (Complete only sections I, II, V and VII.)
- Change Course Requirements: (Complete all sections of the form except “Proposed Name” in II, section III, and section IV.)
- Change Delivery Site/Method (Complete all sections of the form except “Proposed Name” in II, section III, and section IV.)
- Change Total Hours (Complete all sections of the form except “Proposed Name” in II, section III, and section IV.)
- Change in Program Policies

SECTION VI: Justification

Justify this change and state its likely effect on any other degree program (including those outside the school or college). Identify any program or program components (other than courses) to be eliminated if this program is implemented. (Program and course change forms must also be submitted for such related changes.)

Changes to program are being made to accommodate ACT 747. Two Biology courses are being dropped as options in the program. As those courses were optional courses and not required courses, there are no anticipated significant effects expected on other programs.

SECTION VII: Catalog Text and Format

In the box below, insert the current catalog text which is to be changed, with changes highlighted with the color yellow. Include all proposed changes identified in Section V. Only changes explicitly stated in Section V will be considered for approval by the University Course and Programs Committee, the Graduate Council and the Faculty Senate. If you are proposing a new program, give proposed text with all of the elements listed below. If you are proposing modified text, include these elements as appropriate.

Include the following elements, in order, in the catalog text for proposed undergraduate program(s) or program changes:

- State complete major/program name
- Briefly define or describe the major/program or discipline.
- Identify typical career goals or paths for graduates. (Optional)
- State admission requirements (if any) for entry or entry into upper/advanced level of major/program.
- Identify location in catalog of university, college/school, and department/program requirements which the student must meet in addition to hours in the major, but do not restate these requirements.
- State course requirements in the major and any allied areas, giving number of hours and specific courses; specify electives or elective areas and give numbers of hours and courses in elective pools or categories; identify any other course requirements.
- State any other requirements (required GPA, internship, exit exam, project, thesis, etc.).
- Identify name and requirements for each concentration (if any).
- Specify whether a minor or other program component is allowed or required and provide details.
- State eight-semester plan requirements

For minors, state requirements in terms of hours, required courses, electives, etc.

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For graduate program/units, include elements (as needed) parallel to those listed for undergraduate programs above.

For Law School program/units, prepare text consistent with current catalog style.

For centers, prepare text consistent with current catalog style.

ENVIRONMENTAL, SOIL, AND WATER
SCIENCE (ESWS)

Mary C. Savin
ESWS Coordinator
115 Plant Science Building
479-575-5740

Opportunities for employment and post-graduate study are numerous for graduates of the Department of Crop, Soil, and Environmental Sciences. Environmental, Soil, and Water Science graduates find jobs with environmental consulting companies, environmental education organizations, state agencies (e.g., Extension Service, Department of Environmental Quality, Health Department), federal agencies (e.g., Environmental Protection Agency, Natural Resources Conservation Service), municipalities and local environmental services (e.g., waste management and recycling, water and wastewater treatment facilities, parks and tourism departments), a wide variety of private businesses, and environmental research. The Environmental, Soil, and Water Science major includes courses in areas such as environmental science, water quality, soil science, soil and water conservation, and the sustainable productivity of natural resources.

Requirements for a Major in Environmental, Soil, and Water Science
(ESWS)

State minimum core and discipline specific general education requirements:
(Course work that meets state minimum core requirements is in bold.)

Communications (12 hours)

___ Choose from English Core course (6 hours) If exempt, see adviser for communication courses.

- ___ COMM 1313 Public Speaking
- ___ CSES 3023 or AGED 3142/3141L

U.S. History and Government (3 hours)

___ Choose from U.S. History Core courses (3 hours)

Mathematics and Statistics (9 hours)

- ___ MATH 1203 College Algebra
- ___ MATH 1213 Plane Trigonometry (Higher level MATH is encouraged for students with an ACT of 26 or higher and considering graduate school.)
- ___ AGST 4023 Principles of Experimentation or STAT 2023 Biostatistics or STAT 2303 Principles of Statistics

Sciences (35 hours)

- ___ BIOL 1543/1541L Principles of Biology and lab
- ___ BIOL 2013/2011L General Microbiology and lab
- ___ BIOL 3863- and BIOL 3861L General Ecology or ENSC 3223 and 3221L Ecosystem Assessment and lab (FA, even)

___ CSES 1203 Intro to Plant Science

- ___ 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 Chemistry I

- ___ GEOL 1113 and CHEM GEOL 1111L General Geology
- ___ PHYS 2013 and PHYS 2011L College Physics I (MATH 1213)

Fine Arts and Humanities (6 hours)

Category A: Fine Arts Choose one from the following courses:

___ Choose from Fine Arts, Humanities Core courses

Social Sciences (9 hours)

___ Choose from Social Sciences Core courses

ESWS Requirements (29-30 hours)

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Environmental Science Core (11 hours)
___ CSES 1011 Introduction to CSES
___ CSES 2203/2201L Soil Science and lab
___ ENSC 1003 Environmental Science
___ ENSC 3003 Introduction to Water Science
Soil Science Core (3-4 hours)
___ CSES 3214 Soil Resources with lab component
___ CSES 4224 Soil Fertility with lab component
___ CSES 4253 Soil Classification and Genesis with lab component
___ ENSC 4263 Environmental Soil Science
Water Science Core (3 hours)
___ ENSC 4023 Water Quality
___ GEOG 3333 Oceanography
___ GEOL 4033 Hydrogeology with lab component
Natural Resources Core (Choose 12 hours from the following , 2 groups)
Environmental Science
___ AGME 3153 Surveying in Agriculture and Forestry
___ CSES 2013 Pest Management
___ CSES 355V Soil Profile Descriptions
___ ENSC 3103 Plants & Environmental Restoration
___ ENSC 3263 Environmental Soil and Water Conservation with lab component
___ ENSC 3603 GIS for Environmental Science
___ ENSC 4034 Analysis of Environmental Contaminants with lab component
___ ENSC 4401 Professional Certification Preparation
___ GEOG 3003 Conservation of Natural Resources
___ GEOS 3543 Geographic Information Science
Environmental Studies (no more than 6 hrs)
___ AGEC 3413 Principles of Environmental Economics
___ AGEC 3503 Agricultural Law
___ AGEC 3523 Environmental and Natural Resource Law
___ ENSC 3933 Environmental Ethics
___ RSOC/SOCI 4603 Environmental Sociology
General Electives (16-17 hours)
120 Total hours

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SECTION VIII: Action Recorded by Registrar's Office

PROGRAM INVENTORY/DARS

PGRM _____ SUBJ _____ CIP _____ CRTS _____
 DGRE _____ PGCT _____ OFFC&CRTY VALID _____

REPORTING CODES

PROG. DEF. _____ REQ. DEF. _____
 Initials _____ Date _____

Distribution

- Notification to:
- | | | | | | |
|---------------|-------------------------------------|----------------|----------------------------|--------------------------|---------------------|
| (1) College | (2) Department | (3) Admissions | (4) Institutional Research | (5) Continuing Education | (6) Graduate School |
| (7) Treasurer | (8) Undergraduate Program Committee | | | | |

