

**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 2013

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

Current Name                **MSENE, Masters of Science in Environmental Engineering**

College, School, Division **ENGR**

Department Code **CVEG**

Current Code (6 digit Alpha) **ENEGMS**

Proposed Code (6 digit Alpha) \_\_\_\_\_

Prior approval from the Office of the Registrar is required.

Interdisciplinary Program

CIP Code **14.1401**

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](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:

**1. Eliminate the ability to enter the program with between 72 and 90 hours of undergraduate credit. A baccalaureate degree is required for admission to the program.**

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.)*

**Historical data shows that no students have entered this program without a baccalaureate degree.**

### **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.**

**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.**

**(SEE ATTACHED) ENVIRONMENTAL ENGINEERING (ENEG)**

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- Professors Beitle (CHEG), Clausen (CHEG), Cross (CHEG), Haggard (BENG); Matlock (BENG), Nutter (MEEG), Penney (CHEG), Selvam (CVEG), Thoma (CHEG), Young (CVEG)
- Associate Professors Costello (BENG), Chaubey (BENG), Edwards (CVEG), Matlock (BENG), Nutter (MEEG), Soerens (CVEG)
- Assistant Professors Bajwa (BENG), Fairey (CVEG), Zhang (CVEG)
- Adjunct Assistant Professor Williams (CVEG)

**Degree Conferred:** Master of Science in Environmental Engineering M.S.En.E (ENEG)

The Master of Science in Environmental Engineering is a multi-discipline degree program designed for students from a multitude of academic areas. Regardless of undergraduate discipline, each candidate for the degree must complete a number of basic undergraduate engineering courses. In general, graduates of engineering programs will have completed most, if not all, of these courses and can expect to be accepted with little or no undergraduate prerequisite requirements. However, the prerequisite requirements for graduates of programs other than engineering can be quite significant.

To more readily accommodate students with diverse academic backgrounds, qualified undergraduate students at the University can apply for acceptance into an integrated undergraduate/graduate program of study after completing 72 credit hours towards the baccalaureate degree. The integrated undergraduate/graduate program allows the student to complete some graduate requirements prior to completion of the baccalaureate degree and receive full admission to the Graduate School. The integrated program consists of four elements: 1) the requirements for the baccalaureate degree sought by the student, 2) a program of general education, mathematics, science, and basic engineering topics, 3) an 18 credit hour series of basic environmental engineering to provide a breadth of knowledge in the general subject matter, and 4) completion of graduate credit in a defined area of environmental engineering specialization. Depending upon the baccalaureate, there can be significant overlap between the requirements of elements 1, 2, and 3. For example, with appropriate course selection, an engineering B.S. degree can fulfill all requirements of elements 1, 2, and 3.

**Program Objectives:** The objectives of the M.S.En.E. program are to prepare graduates for careers in environmental engineering practice with government agencies, engineering firms, or industries and to provide a foundation for continued study at the post-masters level.

**Primary Areas of Faculty Research:** Water and wastewater treatment and distribution; Wastewater collection and treatment, decentralized collection and treatment systems; soil and groundwater remediation; surface and ground water quality; storm water pollution prevention; environmental and hydrologic modeling; animal waste management; non-point source pollution prevention; watershed management; reactor design and biomass energy; energy systems including heat transfer; thermodynamics and liquid-vapor phase change; bacterial tracers for evaluating movement through fractured subsurface strata.

**Application to Integrated Program:** Application for acceptance into the integrated undergraduate/graduate program may be submitted either directly to the Coordinator of Environmental Engineering Studies or by referral from the student's undergraduate academic department. Requests for acceptance into the integrated program will be approved only with concurrence from the student's undergraduate academic department. Once accepted, the student must apply for admission to the Graduate School through normal application procedures. The applicant must identify an environmental engineering faculty adviser who will help develop the integrated course of study.

After completing 90 credit hours of study towards the baccalaureate degree, students accepted into the integrated degree program may concurrently enroll in undergraduate and graduate level courses. Such enrollment must be consistent with the integrated course of study developed with the faculty adviser.

PGRM \_\_\_\_\_

SUBJ \_\_\_\_\_

CIP \_\_\_\_\_

CRTS \_\_\_\_\_

DGRE \_\_\_\_\_

PGCT \_\_\_\_\_

OFFC&CRTY VALID \_\_\_\_\_

REPORTING CODES

PROG. DEF. \_\_\_\_\_

REQ. DEF. \_\_\_\_\_

Initials \_\_\_\_\_

Date \_\_\_\_\_

Distribution

Notification to:

(1) College  
(7) Treasurer

(2) Department  
(8) Undergraduate Program Committee

(3) Admissions

(4) Institutional Research

(5) Continuing Education

(6) Graduate School

5/12/08