

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 **BSIE, Bachelor of Science in Industrial Engineering**

College, School, Division **ENGR** Department Code **INEG**

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

Interdisciplinary Program CIP Code **14.3501**
 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:

There are four proposed changes to the INEG UG Plan of Study:

1) The INEG department already requires ECON 2143 as one of its university core social science electives. The proposed change allows students to take ECON 2143 or (ECON 2013 and ECON 2023) to meet the INEG requirement in economics.

2) The College of Engineering has requested that all engineering departments have no more than 128 credit hours. To meet this requirement, the INEG department has dropped one credit hour from INEG 2102, creating INEG 2001 Industrial Engineering Seminar

3) The INEG department dropped its engineering science elective of (MEEG 2303 or MEEG 2013 or MEEG 3013) from the 6th semester and replaced it with a modified INEG 2102 course, INEG 2103 Introduction to Industrial Engineering in the 3rd semester.

4) The INEG engineering science elective has been changed from (CHEG 2133 or MEEG 2403 or CHEG 2313) to (MEEG 2403 or CHEG 2313)

INEG 2001 and INEG 2103 have been submitted through the curriculum change form process. To accommodate the changes to these courses the INEG science elective moves to the 3rd semester and the INEG requirement of CSCE 2004 moves to the 4th semester

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.)

a) The Catalog of Studies shows that (ECON 2013 and ECON 2023) are equivalent to ECON 2143 with respect to upper level electives in business and social science. This change makes the INEG economics requirement consistent with how these courses are offered and ensures that our students fulfill the necessary prerequisites for upper level courses.

b) No additional hours are added to the curriculum since both ECON 2013 and ECON 2023 count within the university core as social science electives.

c) The ECON changes will not significantly effect the involved ECON offerings in terms of the current number of INEG students taking the courses.

d) The COE has requested that all engineering departments have no more than 128 credit hours. The INEG plan of study was 129 credit hours. After the proposed change, it will have 128 credit hours.

e) The movement of the INEG requirement of CSCE 2004 to spring may affect the student enrollment pattern for this course.

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.

- 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.

Industrial Engineering B.S.I.E.

Eight-Semester Degree Program

The following section contains the list of courses required for the Bachelor of Science in Industrial Engineering degree and a suggested sequence. Not all courses are offered every semester, so students who deviate from the suggested sequence must pay careful attention to course scheduling and course prerequisites. Students wishing to follow the eight-semester degree plan should see page 40 in the Academic Regulations chapter for university requirements of the program.

At least 12 hours of technical electives must be selected from INEG courses.

Fall Semester Year 1

4 MATH 2554 Calculus I
 3 CHEM 1113 Chemistry for Engineers I
 4 PHYS 2054 University Physics I
 1 GNEG 1111 Introduction to Engineering I
 3 ENGL 1013 Composition I

15 Semester hours

Spring Semester Year 1

4 MATH 2564 Calculus II
 4 Freshman Science elective*
 3 HIST 2003 or HIST 2013 or PLSC 2003
 1 GNEG 1121 Introduction to Engineering II
 3 ENGL 1023 Technical Composition II

15 Semester hours

Fall Semester Year 2

1 INEG 2001 Industrial Engineering Seminar
 3 INEG 2103 Introduction to Industrial Engineering
 3 INEG 2313 Applied Probability and Statistics for Engineers I
 3 INEG 2413 Engineering Economic Analysis
 4 MATH 2574 Calculus III

3 Science Requirement**

17 Semester hours

Spring Semester Year 2

3 INEG 2403 Industrial Cost Analysis
 3 INEG 2333 Applied Probability and Statistics for Engineers II

4 CSCE 2004 Programming Foundations I

17 Semester hours

Fall Semester Year 3

- 3 INEG 3623 Simulation
- 3 INEG 3713 Methods and Standards
- 3 MEEG 2003 Statics
- 3 ELEG 3903 Electric Circuits and Machines
- 3 Fine Arts (From University/State Core List)
- 3 Technical Elective

18 Semester hours

Spring Semester Year 3

- 3 INEG 3613 Introduction to Operations Research
- 3 INEG 4723 Ergonomics
- 3 Engineering Science 1: Select one from
 - MEEG 2303 Introduction to Materials
 - MEEG 2013 Dynamics
 - MEEG 3013 Mechanics of Materials
- 3 CHEG 2313 or MEEG 2403
- 3 ECON 2143 or (ECON 2013 and ECON 2023)
- 3 Technical Elective

15 Semester hours

Fall Semester Year 4

- 3 INEG 4433 Systems Engineering & Management
- 3 INEG 4553 Production Planning and Control
- 3 Technical elective
- 3 Technical elective
- 3 Social Science (From University/State Core List)

15 Semester hours

Spring Semester Year 4

- 4 INEG 4904 Industrial Engineering Design
- 3 Technical elective
- 3 Technical elective
- 3 Humanities (From University/State Core List)
- 3 Social Science (From University/State Core List)

16 Semester hours

128 Total hours required

*The Freshman Engineering Science Elective must be chosen from either CHEM 1133/1131L or PHYS 2074.

** The Sophomore Science Elective must be PHYS 2074 (if CHEM 1133/1131L was chosen as the Freshman Engineering Elective) or CHEM 1133/1131L (if PHYS 2074 was chosen as the Freshman Engineering Science Elective); otherwise see the approved list of Industrial Engineering science electives.

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
(7) Treasurer

(2) Department
(8) Undergraduate Program Committee

(3) Admissions

(4) Institutional Research

(5) Continuing Education

(6) Graduate School

5/12/08