

ATTACHMENT F

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
Vice Provost for Distance Education Date (for on-line programs)

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

Academic Unit: [X] Major/Field of Study [] Minor [] Other Unit [] Policy
Level: [] Undergraduate [X] Graduate [] Law Effective Catalog Year 2014-2015

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

Current Name Electrical Engineering

College, School, Division ENGR Department Code ELEG

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

[] Interdisciplinary Program CIP Code 14.1001
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/academicaffairs.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: MSEE students will no longer be required to take ELEG 5801, Written and Oral Communication.

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.)

Written and Oral Communication course ELEG 5801 is requested to be dropped from the MSEE program. Some of the concepts of the course are made available at the website of the department (e.g. plagiarism). Also, students get training to write technical reports in special problems courses. With training from the major advisors, the students write technical papers for technical conferences and journals, and often make posters, oral presentations at conferences and in their research regular group meetings. Therefore, this course is not necessary any more.

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.

Degrees Conferred:

M.S.E.E. (ELEG)

M.S.E., Ph.D. in Engineering (ENGR) (See Engineering)

Primary Areas of Faculty Research: Computer aided design (CAD); computer architecture and microprocessors; control systems and motion control; design, modeling, and testing of analog, digital, and mixed signal circuits; digital signal processing and image processing; electronic packaging, sensors, smart materials and structures and micro electro mechanical (MEMs) systems; embedded control systems; microelectronics, including solid state physics, processing, integrated circuit design, solar cells, and semiconductor nanostructures; semiconductor materials for optoelectronic applications; microwave design; microwave imaging; neural networks and pattern recognition; neuroelectronics and neurosurgery; power electronics, including design of motors and generators, motor controls, and power distribution; radar and computational electromagnetics; sensor networks; telecommunications, including wireless communications and computer networking.

Requirements for Graduate Degrees: In addition to the requirements of the Graduate School and the College of Engineering, the following departmental requirements must be satisfied by candidates for advanced degrees in electrical engineering.

1. Candidates for the Master of Science degree who present a thesis are required to complete a minimum of 24 semester hours of course work and six semester hours of thesis.
2. Candidates for the Master of Science degree who do not present a thesis are required to complete a minimum of 30 semester hours of course work.
3. Course work presented for the degree of Master of Science must include ELEG 5801 and a minimum of 12 semester hours at the 5000- or 6000-level in electrical engineering. At least 15 (21 for non-thesis option) hours of the student's graduate course work must be ELEG courses. No more than six hours of ELEG 588V may be presented for degree credit.
4. Students who complete a B.S. degree in Electrical Engineering at the University of Arkansas, Fayetteville, with a GPA of 3.5 or greater may count towards the M.S. degree up to six hours of ELEG graduate-level coursework completed as an undergraduate student.
5. The program of study for the Ph.D. degree must satisfy the following:
 - a. If the student does not have an M.S. degree, a minimum of 42 hours of course work (excluding dissertation hours) beyond the bachelor's degree must be presented in the Ph.D. program. If the student has an M.S. degree, a minimum of 42 hours of course work (excluding thesis and dissertation hours) must be presented in the combined M.S. and Ph.D. programs.
 - b. The course work specified in item (a) must include a minimum of 30 hours of course work at the 5000 and 6000 level, and at least 24 of these 5000- and 6000-level hours must be in electrical engineering.
 - c. The course work specified in item (a) must include a minimum of nine hours in a coherent set of courses in a related subject area approved by the student's advisory committee. This subject area must be different from the focus of the student's dissertation research.
 - d. The course work specified in item (a) must include one of the following courses: GRSD 5003

(Teaching and the Professoriate) or MEPH 5383 (Research Commercialization.

- e. The doctoral program must include at least 72 hours of course work and thesis or dissertation hours. A maximum of six of these hours may be thesis hours. The remaining hours that are not course work must be dissertation. The Graduate School requires a minimum of 18 hours of dissertation for graduation.
 - f. It is emphasized that the course work specified above represents minimums, and many students' programs will include more than this minimum, particularly if the student has an M.S.E.E. degree from a school that is not a recognized graduate school in the United States.
6. Candidates for the M.S.E.E. degree must take an M.S. Readiness Assessment exam during their first semester of graduate work. This exam is administered by the student's major professor and advisory committee, and is designed to assess the student's undergraduate preparation for his or her graduate work. The student may be required to take whatever undergraduate courses are deemed necessary in addition to the graduate courses specified in items 1-3.
 7. The M.S.E.E. degree includes a distance education option for which students complete most or all of their coursework using distance education courses. The use of this option is subject to approval by the student's major professor, and to the availability of sufficient distance education courses in the student's specialty areas to enable completion of the M.S.E.E.
 8. The M.S.E.E. degree will allow transfer of up to nine credit hours of graduate level coursework from universities with which the University of Arkansas has a "1+1" M.S.E.E. exchange program. This is an exception to the Graduate School rule that only six hours may be transferred. Each course transferred must be graduate level, and must be approved for transfer by the Electrical Engineering Graduate Committee. The transferred courses will not count toward the M.S.E.E. requirement for 5000 or 6000 level ELEG courses.
 9. Other conditions as stipulated in departmental guidelines for master's and doctoral degrees.

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

8/19/13