

CEAS-24-044-MAG

REQUEST TO COLLEGE CURRICULUM COMMITTEE FOR CURRICULAR IMPROVEMENTS

DEPARTMENT: MAE PROPOSED EFFECTIVE SEMESTER: Fall 2015 COLLEGE: CEAS

PROPOSED IMPROVEMENTS

Academic Program

- ☐ New degree*
☐ New major*
☐ New curriculum*
☐ New concentration*
☐ New certificate
☐ New minor
☐ Revised major
☐ Revised minor
☐ Admission requirements
☐ Graduation requirements
☐ Deletion ☐ Transfer
☐ Other (explain**)

Substantive Course Changes

- ☐ New course
☒ Pre or Co-requisites
☐ Deletion (required by others)
☐ Course #, different level
☐ Credit hours
☐ Enrollment restriction
☐ Course-level restriction
☐ Prefix ☒ Title and description
(attach current & proposed)
☐ General education (select one)

Not Applicable

Misc. Course Changes

- ☒ Title
☐ Description (attach current & proposed)
☐ Deletion (not required by others)
☐ Course #, same level
☐ Variable credit
☐ Credit/no credit
☒ Cross-listing
☐ COGE reapproval
☐ Other (explain**)

** Other: Change the course prefix for a prerequisite

Title of degree, curriculum, major, minor, concentration, or certificate: Mechanical Engineering

Existing course prefix and #: ME Proposed course prefix and #: ME Credit hours:

Existing course title: ME 4790 - Mechanical and Aeronautical Engineering Project Planning

Proposed course title: ME 4790 - Mechanical and Aerospace Engineering Project Planning

Existing course prerequisite & co-requisite(s): ME 3350 and ME 3600 and (ME 4330 or ME 4390 or ME 4680 or ME 5390 or ME 4530 or ME 4700 or ME 5730 or AAE 4600 or AAE 4630).

Proposed course prerequisite(s): ME 3350 and ME 3600 and (ME 4330 or ME 4390 or ME 4680 or ME 5390 or ME 4530 or ME 4700 or ME 5730 or AE 4600 or AE 4630).

Proposed course co-requisite(s)

Proposed course prerequisite(s) that can also be taken concurrently:

Is there a minimum grade for the prerequisites or corequisites? A grade of "C" or better is required in all prerequisites.

Major/minor or classification restrictions:

Restricted to majors in aerospace engineering or mechanical engineering. MEGJ, AEGJ

For 5000 level prerequisites & corequisites: Do these apply to: (circle one) undergraduates graduates both

Specifications for University Schedule of Classes:

a. Course title (maximum of 30 spaces):

b. Multi-topic course: ☐ No ☐ Yes

c. Repeatable for credit: ☐ No ☐ Yes

d. Mandatory credit/no credit: ☐ No ☐ Yes

e. Type of class and contact hours per week (check type and indicate hours as appropriate)

1. ☐ Lecture

3. ☐ Lecture/lab/discussion

5. ☐ Independent study

2. ☐ Lab or discussion

4. ☐ Seminar or ☐ studio

6. ☐ Supervision or practicum

CIP Code (Registrar's use only):

Chair/Director

Date

Chair, College Curriculum Committee

Date

Dean

Date:

Graduate Dean:

Date

Curriculum Manager: Return to dean ☐ Date

Forward to:

Date

Chair, COGE/ PEB / FS President

Date

FOR PROPOSALS REQUIRING GSC/USC REVIEW:

* ☐ Approve ☐ Disapprove

Chair, GSC/USC

Date

* ☐ Approve ☐ Disapprove

Provost

Date

1. Explain briefly and clearly the proposed improvement.

The change of title reflects the change of program from "aerospace engineering" rather than "aeronautical engineering".

2. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.)

To have the course name match the program name.

3. Effect on other colleges, departments or programs. If consultation with others is required, attach evidence of consultation and support. If objections have been raised, document the resolution. Demonstrate that the program you propose is not a duplication of an existing one.

No effect

4. Effect on your department's programs. Show how the proposed change fits with other departmental offerings.

No effect

5. Effects on enrolled students: Are program conflicts avoided? Will your proposal make it easier or harder for students to meet graduation requirements? Can students complete the program in a reasonable time? Show that you have considered scheduling needs and demands on students' time. If a required course will be offered during summer only, provide a rationale.

No effect. Students, faculty, and advisors will need to be aware of the change.

6. Student or external market demand. What is your anticipated student audience? What evidence of student or market demand or need exists? What is the estimated enrollment? What other factors make your proposal beneficial to students?

No effect

7. Effects on resources. Explain how your proposal would affect department and University resources, including faculty, equipment, space, technology, and library holdings. Tell how you will staff additions to the program. If more advising will be needed, how will you provide for it? How often will course(s) be offered? What will be the initial one-time costs and the ongoing base-funding costs for the proposed program? (Attach additional pages, as necessary.)

No effect

8. General education criteria. For a general education course, indicate how this course will meet the criteria for the area or proficiency. (See the General Education Policy for descriptions of each area and proficiency and the criteria. Attach additional pages as necessary. Attach a syllabus if (a) proposing a new course, (b) requesting certification for baccalaureate-level writing, or (c) requesting reapproval of an existing course.)

This course is not a general education course

9. List the learning outcomes for the proposed course or the revised or proposed major, minor, or concentration. These are the outcomes that the department will use for future assessments of the course or program.

The learning outcomes do not change

10. Describe how this curriculum change is a response to assessment outcomes that are part of a departmental or college assessment plan or informal assessment activities.

No changes to the ME program.

11. (Undergraduate proposals only) Describe, in detail, how this curriculum change affects transfer articulation for Michigan community colleges. For course changes, include detail on necessary changes to transfer articulation from Michigan community college courses. For new majors or minors, describe transfer guidelines to be developed with Michigan community colleges. For revisions to majors or minors, describe necessary revisions to Michigan community

college guidelines. Department chairs should seek assistance from college advising directors or from the admissions office in completing this section.

No effect

The current catalog description is:

ME 4790 - Mechanical and Aeronautical Engineering Project Planning

An introduction to the design process, including problem definition, decision making and project planning. Goal of the course is to develop a project proposal and work plan for a major design project.

Prerequisites & Corequisites: Prerequisites: ME 3350 and ME 3600 and (ME 4330 or ME 4390 or ME 4680 or ME 5390 or ME 4530 or ME 4700 or ME 5730 or AAE 4600 or AAE 4630). AAE 4600 or AAE 4630 may be taken concurrently. A grade of "C" or better is required in all prerequisites.

Credits: 1 hour

Restrictions: Restricted to majors in aeronautical engineering and mechanical engineering.

When Offered: Fall, Spring, Summer I

The proposed catalog description is:

ME 4790 - Mechanical and Aerospace Engineering Project Planning

An introduction to the design process, including problem definition, decision making and project planning. Goal of the course is to develop a project proposal and work plan for a major design project.

Prerequisites & Corequisites: Prerequisites: ME 3350 and ME 3600 and (ME 4330 or ME 4390 or ME 4680 or ME 5390 or ME 4530 or ME 4700 or ME 5730 or AE 4600 or AE 4630). AE 4600 or AE 4630 may be taken concurrently. A grade of "C" or better is required in all prerequisites.

Credits: 1 hour

Restrictions: Restricted to majors in aerospace engineering and mechanical engineering.

When Offered: Fall, Spring, Summer I