

# 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 3350 - Instrumentation

Proposed course title:

Existing course prerequisite & co-requisite(s): ME 2570, ME 3620, ECE 2100, and writing requirement.

Proposed course prerequisite(s) ME 2570 and ME 3620 and ECE 2100

If there are multiple prerequisites, connect with "and" or "or". To remove prerequisites, enter "none."

Proposed course co-requisite(s)

If there are multiple corequisites, they are always joined by "and."

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

Is there a minimum grade for the prerequisites or corequisites?

Major/minor or classification restrictions:

List the Banner 4 character codes and whether they should be included or excluded.

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 10/7/2014

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 course will be used in the AE program to meet the writing requirement. This writing requirement was previously based on ME3650.

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

ME3650 was made an elective course in the AE program and some students will not take it. These students must have an alternative method of fulfilling the writing requirement. This course will be that alternative.

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.

None Expected

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

None Expected

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.

None Expected. AE students were already required to take this course.

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?

None Expected

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.)

None Expected

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 of this course do not change. The course already requires reports which will not be used to fulfill the writing requirement.

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.

This is described in the program change documents.

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 3350 - Instrumentation

Principles of measurement, testing, and evaluation of mechanical and aerospace engineering systems. Experimental design. Estimation of error. Technical report preparation.

Prerequisites & Corequisites: Prerequisites: ME 2570, ME 3620, ECE 2100, and writing requirement.

Credits: 3 hours

Lecture Hours - Laboratory Hours: (2 - 3)

When Offered: Fall, Spring, Summer I

**The proposed catalog description is:**

ME 3350 - Instrumentation

Principles of measurement, testing, and evaluation of mechanical and aerospace engineering systems. Experimental design. Estimation of error. Technical report preparation.

Prerequisites & Corequisites: Prerequisites: ME 2570 and ME 3620 and ECE 2100

Credits: 3 hours

Notes: This course is approved as a writing-intensive course which may fulfill the baccalaureate-level writing requirement of the student's curriculum.

Lecture Hours - Laboratory Hours: (2 - 3)

When Offered: Fall, Spring, Summer I