REQUEST TO COLLEGE CURRICULUM COMMITTEE FOR CURRICULAR IMPROVEMENTS

1124525116 65	PLEEDE GORRIGOEOM COMMITTEET OR CORRICOLAR IMP	COVEINENTS
DEPARTMENT: MAE PROPOSED IMPROVEMEN	PROPOSED EFFECTIVE SEMESTER: Fall 2015 COLLEGE: C	EAS
Academic Program	Substantive Course Changes Misc. Course Cha	inaes
New degree*	New course Title	
New major*	Pre or Co-requisites Description (attach current & propo	used)
New curriculum*		required by others)
New concentration*	Course #, different level Course #, same level	oquilou by outers,
New certificate	Credit hours Variable credit	
New minor	Enrollment restriction Credit/no credit	
Revised major		
Revised minor		access to 4
	Prefix Title and description COGE reappro	
Admission requirements		·**)
Graduation requirements	_ , ,	
Deletion Transfer	Not Applicable	
Other (explain**)		
** Other: x		
Title of degree, curriculum, major, minor, concentration, or certificate: Aerospace Engineering Existing course prefix and #: Credit hours: Existing course title: AE 4690 - Aircraft Design Proposed course title:		
Existing course prerequisite & co-requisite(s): AE 4600 and ME3650 Proposed course prerequisite(s) AE3800 and AE4600 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? AE4600 and AE4600 (with a grade of "C" or better). Major/minor or classification restrictions: This course restricted majors in aerospace engineering. (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 on	y):	
Chair/Director		Date 10/7/2019
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

Explain briefly and clearly the proposed improvement.

This course will be used as the capstone design course for AE. The course content does not change.

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

During a recent ABET review, it was identified that AE students effectively complete two capstone design courses (ME4800 and AE4690). Because of this, and to open the opportunity for an additional AE elective course, ME4800 is being dropped as a course requirement and as the capstone course in AE.

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.

This will make the AE program a more complete aerospace education and allow a deeper depth of knowledge by adding AE elective options.

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.

This change will ease the extreme stress of the ^{7t}h semester and allow for additional electives. There are no negative effects on the existing student body. Students, advisors, and auditors will need to recognize 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?

The market demand for AE programs may increase due to the increased flexibility of the program and the increased depth of knowledge in the field.

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.)

There are no adverse effects on department resources. The elective courses are already approved.

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.)

The 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 have not changed

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.

The change is a direct result of ABET evaluators and faculty having identified a redundancy in the capstone project requirements. Student feedback was also used to rebalance the load more evenly across all semesters.

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 expected

The current catalog description is:

AE 4690 - Aircraft Design

Conceptual and preliminary design of aircraft emphasizing performance, stability and control, and total vehicle efficiency.

Prerequisites & Corequisites: Prerequisites: AE 4600 and ME 3650 (with a grade of "C" or better).

Credits: 3 hours

Restrictions: This course restricted majors in aerospace engineering.

When Offered: Spring

The proposed catalog description is:

AE 4690 - Aircraft Design

Conceptual and preliminary design of aircraft emphasizing performance, stability and control, and total vehicle efficiency.

Prerequisites & Corequisites: Prerequisites: AE3800 and AE4600 (with a grade of "C" or better).

Note: This course acts as the capstone design course for the BS Aerospace Engineering program.

Credits: 3 hours

Restrictions: This course restricted majors in aerospace engineering.

When Offered: Spring