Curriculum Course Request Change Course IEE 3010 - A-2018-IEM-109; effective term: 202010

Steven E Butt

Mon 11/19/2018 11:06 AM

To: Raja G Aravamuthan <raja.aravamuthan@wmich.edu>; Said M Abubakr <said.abubakr@wmich.edu>;
Cc: Holly Blanks <holly.blanks@wmich.edu>

Please verify your data for New Curriculum Course Request for department: IEM; college: A.
Go to the following URL to complete your worklist items: https://bwfp1.cc.wmich.edu:7102/wfbprod

Date of request: 17-NOV-2018


College: A

Department: IEM

Initiator name: Steven Butt

Initiator email: steven.butt@wmich.edu

Proposed effective term: 202010

Does course need General Education approval?: N

Will course be used in teacher education?: N

If 5000 level course, prerequisites apply to: U

Proposed course data:
Change Course IEE 3010
Specific Course Change type selected: Enrollment restriction

1. Existing course prefix and number:
IEE 3010

2. Major and/or minor restrictions:
Include

3. List all the four-digit major and/or minor codes (from Banner) that are to be included or excluded:
This course is restricted to the following major(s):
Industrial Engr. (Accelerated) (IENQ)
Ind and Entrepreneurial Eng (IEEJ)
Enterprise (ENTN)

https://outlook.office.com/owa/?realm=WMICH.EDU&exsvurl=1&ll-cc=1033&modurl=0&path=/mail/search
4. If this change applies to multiple courses, please list them below.
Not Applicable

A. Please choose Yes or No to indicate if this class is a Teacher Education class:
No

B. Please choose the applicable class level:
Undergraduate

C. Please respond Yes if this is a current general education course and/or a course being submitted for the new WMU Essential Studies program. Please respond No if it is neither.
No

D. Explain briefly and clearly the proposed improvement.
The proposed improvement is to remove Industrial Engineering (IENJ) from the enrollment restriction list and add Product Design (APDJ) to the enrollment restriction list. The first code is for a program that has been closed. Product Design was given permission to use IEE 3010 in their program in a prior approval cycle. The inclusion of APDJ is a clean up operation.

E. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.)
Clean up operation. See D.

F. List the student 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.
1. Define an opportunity, design solutions, and compare alternatives to meet opportunity requirements
2. Critically analyze, evaluate, and improve a product using appropriate knowledge of engineering materials and principles
3. Demonstrate good oral, written, and graphical communication
4. Understand the professional, societal, and global impact of engineering design activities

G. Describe how this curriculum change is a response to student learning assessment outcomes that are part of a departmental or college assessment plan or informal assessment activities.
Not Applicable

H. 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.
Not Applicable

I. Effect on your department's programs. Show how the proposed change fits with other departmental offerings.
No effect. Clean up operation.

J. 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. Clean up operation.

K. 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. Clean up operation.

L. 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 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. Clean up operation.

M. With the change from General Education to WMU Essential Studies, this question is no longer used.

For courses requesting approval as a WMU Essential Studies course, a syllabus identifying the student learning outcomes and an action plan for assessing the student learning outcomes must be attached in the Banner Workflow system.
Not Applicable

N. (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. Clean up operation.

O. Current catalog copy:
IEE 3010 - Entrepreneurial Engineering II: Product and Service Design
Through research, analysis, drawing and prototyping, students will understand human needs that lead to the conceptualization and design of future products, environments, systems, and services. Students are taught to use design processes to resolve constraints arising from technical, human, aesthetic, and business concerns. The course places emphasis on conceptual thinking, creativity, and risk-taking.

Prerequisites & Corequisites: Prerequisite: Junior or senior standing, or instructor approval required.

Credits: 3 hours

Restrictions: Restricted to majors Industrial and Entrepreneurial Engineering or minors in Entrepreneurship.

Lecture Hours - Laboratory Hours: (2 - 3)

P. Proposed catalog copy:
IEE 3010 - Entrepreneurial Engineering II: Product and Service Design
Through research, analysis, drawing and prototyping, students will understand human needs that lead to the conceptualization and design of future products, environments, systems, and services. Students are taught to use design processes to resolve constraints arising from technical, human, aesthetic, and business concerns. The course places emphasis on conceptual thinking, creativity, and risk-taking.

Prerequisites & Corequisites: Prerequisite: Junior or senior standing, or instructor approval required.

Credits: 3 hours

Restrictions: Restricted to majors in Industrial and Entrepreneurial Engineering, majors in Product Design, or minors in Entrepreneurship.

Lecture Hours - Laboratory Hours: (2 - 3)
Department Curriculum Chair approver: Larry Mallak

Department Curriculum Chair comment:

Date: 19-NOV-2018

Department approver: Steven Butt

Chair comment:

Date: 19-NOV-2018