
CEAS - 184-115 - EDMMS

Steven E Butt
Mon 11/26/2018 1:32 PM

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: EDMM; 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
Request ID: A-2018-EDMM-106
College: A
Department: EDMM
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 EDMM 2001
Specific Course Change type selected: Other (explain**)

1. Existing course prefix and number:
   EDMM 2001

2. Other (** explain)
   Change distribution of credit hours among the lecture and lab components of the course

3. 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

https://outlook.office.com/owa/?realm=WMICH.EDU&exsvurl=1&ll-cc=1033&modurl=0&path=/mail/inbox
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.
This 3 credit hour course is currently a 1 hour lecture and 6 hour lab course. The proposed improvement is to change the distribution of contact hours to a 2 hour lecture and 3 hour lab course. This is consistent with the pedagogy of the course and will help with student and facilities scheduling.

E. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.).
Based on the way the course is being taught, the additional hour of lecture is required to set up the activities completed during the laboratory time period. Currently, part of the lab is used for this purpose. Thus, the proposed change better fits the current needs of the course. In addition, scheduling 6 hours of lab time has caused some difficulties in advising and scheduling, particularly for transfer students who are not in the normal sequencing of the program courses. This course has a high demand each semester due in part to the limited capacity of the lab. This change will also allow additional lab periods to be scheduled in a semester to accommodate more students and potentially decrease the time to degree completion. Finally, this change may help with the scheduling of facilities for each lab section, since the required time for each section is reduced by 3 hours.

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.
Students who successfully complete this course will:
1. Develop fundamental techniques for and be able to troubleshoot common power system circuits.
2. Be able to safely use the tools and software employed in troubleshooting live and dead circuits while conducting system analysis.
3. Be able to identify and select a wide range of actuators including electric motors for various applications.
4. Be able to select the proper power requirements for a given application including wire conductors, insulators and system control features.

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.
No change to course content or requirements. The learning outcomes are still fully supported via the redistribution of contact hours between the lecture and lab periods.

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.
This course is only required by the three undergraduate programs within the EDMMS department. A negative effect is not anticipated on other departments and may open facilities for other department uses. If a student from another department would take this course as an elective, the contact hours required will be reduced and support more flexibility in the student’s schedule.

I. Effect on your department’s programs. Show how the proposed change fits with other departmental offerings.
The proposed change will allow for the potential to add additional course sections and give more flexibility to student schedules.

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. The change will make it easier for students to schedule this course and may give scheduling flexibility through additional times for lab sections.

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 changes expected.

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 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 changes expected. May open lab facility time for other uses.

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 changes to transfer articulations.

O. Current catalog copy:
EDMM 2001 - Applied Electricity/Electronics
A hands-on foundation exploring and applying fundamental electrical and electronics theory to practical application in everyday industrial settings. An emphasis on the control of various motion actuations and how to troubleshoot the system.

Prerequisites & Corequisites: Prerequisites: (PHYS 1070 and PHYS 1080) or (PHYS 1150 and PHYS 1160) or (PHYS 2070 and PHYS 2080) with a grade of "C" or better in all prerequisites.

Credits: 3 hours
Lecture Hours - Laboratory Hours: (1 - 6)

P. Proposed catalog copy:
EDMM 2001 - Applied Electricity/Electronics
A hands-on foundation exploring and applying fundamental electrical and electronics theory to practical application in everyday industrial settings. An emphasis on the control of various motion actuations and how to troubleshoot the system.

Prerequisites & Corequisites: Prerequisites: (PHYS 1070 and PHYS 1080) or (PHYS 1150 and PHYS 1160) or (PHYS 2070 and PHYS 2080) with a grade of "C" or better in all prerequisites.

Credits: 3 hours
Lecture Hours - Laboratory Hours: (2 - 3)
Department Curriculum Chair approver: Paul Engelmann

Department Curriculum Chair comment: This will be a welcome change in terms of student scheduling.

Date: 26-NOV-2018

Department approver: Steven Butt

Chair comment:

Date: 26-NOV-2018