Curriculum Course Request Change Course EDMM 1500 - A-2018-EDMM-47; effective term: 201940

Steven E Butt
Tue 12/18/2018 4:46 PM
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Cc: Holly Blanks <holly.blanks@wmich.edu>

Assessing WES SLO Outcomes - EDMM 1500.docx;

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/wfprod

Date of request: 05-OCT-2018
Request ID: A-2018-EDMM-47
College: A
Department: EDMM
Initiator name: Paul Engelmann
Initiator email: paul.engelmann@wmich.edu
Proposed effective term: 201940
Does course need General Education approval?: Y
Will course be used in teacher education?: N
If 5000 level course, prerequisites apply to: U

Proposed course data:
Change Course EDMM 1500
Specific Course Change type selected: WMU Essential Studies - Level 2: Exploration and Discovery

1. Existing course prefix and number:
EDMM 1500

2. Level 2: Exploration and Discovery
Indicate which course category the course should be placed in:
Science and Technology

3. Indicate which ONE additional required student learning outcome the course will assess: (may NOT select category required outcome listed above)

https://outlook.office.com/owa/?realm=WMICH.EDU&exsvurl=1&ll-cc=1033&modurl=0
this course thus enables students enrolled in these majors and minor to move along the path laid out in WES, and do so without adding semester hours to their degree.

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. Having EDMM 1500 fulfill WES level 2 Scientific and Technical Literacy, will help students to graduate without adding credit hours in order to fulfill this WES requirement.

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? The course is offered Fall, Spring and Summer and serves roughly 235-250 students per year.

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.) Fall 110 students, Spring 110 students and Summer 30 students. No initial one-time costs nor ongoing costs are anticipated.

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. EDDM 1500 is articulated with courses at 15 community colleges and 3 other universities in the State of Michigan. No changes are anticipated at this time.

O. Current catalog copy:
EDDM 1500 - Introduction to Manufacturing
Analysis and application of a broad range of modern manufacturing techniques utilized in industry. Exploration of production methods as influenced by historical impact, materials, processes, productivity, ethics, and social/environmental concerns. The global challenges to product design, performance, quality, and economic considerations will be investigated.
Credits: 3 hours
Lecture Hours - Laboratory Hours: (3 - 0)

P. Proposed catalog copy:
EDDM 1500 - Introduction to Manufacturing
Analysis and application of a broad range of modern manufacturing techniques utilized in industry. Exploration of production methods as influenced by historical impact, materials, processes, productivity, ethics, and social/environmental concerns. The global challenges to product design, performance, quality, and economic considerations will be investigated.
Credits: 3 hours
Lecture Hours - Laboratory Hours: (3 - 0)
This course meets the student learning outcomes in the WMU Essential Studies Level 2-Exploration and Discovery, Sciences and Technology Course Category

Department Curriculum Chair approver: Paul Engelmann
<table>
<thead>
<tr>
<th>WMU Essential Studies Student Learning Outcome</th>
<th>Assignments and/or Learning Activities that meet the criteria within the rubric that is aligned with the SLO</th>
<th>When the SLO assessment will take place</th>
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<tbody>
<tr>
<td>Demonstrate and apply scientific literacy</td>
<td>Teams of 3 students each conduct an evaluation of a manufactured product of their choosing. They must determine all the different materials used to make the product, as well as to explain the manufacturing processes that were utilized. These determinations must be made through a combination of research and experimentation.</td>
<td>A fully documented and cited written report containing extensive use of figures is due at the beginning of the fourth quarter of the class.</td>
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<td>Develop practices for planetary sustainability</td>
<td>Lecture topics throughout the course explore conservation and reuse of manufacturing materials as well as energy consideration for most processes. These culminate in the final lecture devoted to Sustainable Manufacturing.</td>
<td>Summary assessment done using 8 of 60 questions on the final exam. There is also continual assessment via clicker questions throughout the course.</td>
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