WMU - Internal Curriculum Form - New

- Department Contact Information:
  - Start Date: 01-OCT-2018
  - College: A
  - Department: ENGR
  - Initiator name: Matthew Cavalli
  - Department email: matthew.cavalli@wmich.edu

- Effective Term: 201940

- Does course need General Education approval?
  - N

- Will course be used in teacher education?
  - N

- If 5000 level course, prerequisites apply to:
  - U
  - New Course BME 1010
    New course selected: This new course is not seeking approval as a general education course.

1. Proposed course prefix and number:
   BME 1010

2. Proposed credit hours:
   3

3. Proposed course title:
   Introduction to Biomedical Engineering

4. Proposed course prerequisites:
   None

5. Proposed course corequisites:
   None

6. Proposed course prerequisites that may be taken concurrently (before or at the same time):
   None

7. Minimum grade for prerequisites (default grades are D for Undergrad and C for Grad):
   None

8. Major and/or minor restrictions:
   Include

9. List all the four-digit major and/or minor codes (from Banner) that are to be included or excluded:
   Biomedical Engineering and Pre-Biomedical Engineering (codes do not yet exist)

10. Classification restrictions:
    Not Applicable

11. List all the classifications (freshman, sophomore, junior, senior) that are to be included or excluded:
    None

12. Level restriction:
    Include

13. List the level (undergraduate, graduate) that is to be included or excluded.
   --
14. Do prerequisites and corequisites for 5000-level courses apply to undergraduates, graduates, or both? 
   Not Applicable

15. Is this a multi-topic course?
   No

16. Proposed course title to be entered in Banner:
   Intro to Biomedical Engr

17. Is this course repeatable for credit?
   No

18. Is this course mandatory credit/no credit?
   No

19. Select class type:
   Lecture

20. How many contact hours per week for this course?
   3

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 choose Yes or No to indicate if this class is a General Education Class:
   No

D. Explain briefly and clearly the proposed improvement.
   We propose to implement an undergraduate degree in biomedical engineering. This degree will comprise four tracks, allowing students to focus their studies in an area of interest: Biomolecular, Biomechanics and Materials, Instrumentation, and Health Systems Engineering. The core biomedical engineering curriculum has been constructed to meet the curricular and learning outcomes requirements of the Engineering Accreditation Commission of ABET. Five new courses with a "BME" prefix will be offered as part of the new program. Coursework from the College of Engineering and Applied Sciences (CEAS) and the College of Arts and Sciences (CAS) will also be integrated to complete the degree.

BME 1010 will be an important part of the new BME program, addressing curricular requirements from our accrediting body (the Engineering Accreditation Commission of ABET) and helping to prepare students for subsequent courses in BME, BIOS, and other disciplines.

Department Curriculum Chair Approval

☐ Approve  ☐ Deny

Reason for denial:

Comment:

Attachments

- curriculum supporting doc
  BME 1010 ABET.docx (16 KB)
  01-Oct-2018 11:54:19 AM
  Update [Remove]

- curriculum supporting doc2
  BME ABET Curriculum Summary.pdf (52 KB)
  01-Oct-2018 11:56:52 AM
  Update [Remove]

- curriculum supporting doc3
  BME ABET Outcomes Summary.pdf (121 KB)
  01-Oct-2018 11:58:16 AM
  Update [Remove]

- curriculum supporting doc4
  WMU BME Proposal Final.pdf (382 KB)
  01-Oct-2018 12:01:28 PM
  Update [Remove]