**New Course Request**

**Indiana University**

**Indianapolis Campus**

<table>
<thead>
<tr>
<th>Check Appropriate Boxes:</th>
<th>Undergraduate credit ✓</th>
<th>Graduate credit □</th>
<th>Professional credit □</th>
</tr>
</thead>
</table>

1. **School/Division** School of Engineering and Technology
2. **Academic Subject Code** BMET

3. **Course Number** 493 (must be cleared with University Enrollment Services)
4. **Instructor** Christe

5. **Course Title** Ethics and Professionalism for BMETs
   
   **Recommended Abbreviation (Optional)** Ethics and Profess. for BMETs
   
   (Limited to 32 Characters including spaces)

6. **First time this course is to be offered (Semester/Year):** Fall, 2008

7. **Credit Hours:** Fixed at 1 or Variable from ________ to ________

8. **Is this course to be graded S-F (only)?** Yes ✓ No □

9. **Is variable title approval being requested?** Yes □ No ✓

10. **Course description (not to exceed 50 words) for Bulletin publication:** P: Senior Standing. Students will explore ethical, social, political, legal and ecological issues that practicing BMETs may encounter. Particular emphasis will be placed on patient safety and privacy issues.

11. **Lecture Contact Hours:** Fixed at 1 or Variable from ________ to ________

12. **Non-Lecture Contact Hours:** Fixed at 0 or Variable from ________ to ________

13. **Estimated enrollment:** 25 of which 0 percent are expected to be graduate students.

14. **Frequency of scheduling:** 2/year
   
   Will this course be required for majors? Yes

15. **Justification for new course:** supports new BMET BS degree

16. **Are the necessary reading materials currently available in the appropriate library?** Yes

17. **Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.**

18. **If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant.**

19. **A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.**

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**Submitted by:**

Michael E. Pfeil

Date 3/25/08

Department Chairman/Division Director

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**Approved by:**

William J. Curf Date 4/16/08

Dean

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**Date**

Chancellor/Vice-President

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Date

University Enrollment Services

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After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.
BMET 493 Ethics and Professionalism for BMETs

Course Description: Students will explore ethical, social, political, legal and ecological issues that practicing BMETs may encounter. Particular emphasis will be placed on patient safety and privacy issues.

Prerequisite: Senior standing

Textbook: none

Coordinator: Barbara Christe

Goals: Students will explore ethical and professional issues specific to the field of Biomedical Engineering Technology.

Course Outcomes:

1. Understand an institution’s need for a Code of Conduct and their need to adhere to a given code. As well, the student will demonstrate knowledge of a professional code of ethics.
2. Recognize contemporary professional, societal and global issues in case studies and course projects.
3. Demonstrate a clear understanding of the need for diversity and Sexual Harassment Awareness in a professional environment.
4. Demonstrate the ability to analyze and suggest realistic solutions to professional ethical dilemmas.

Discussion Forums
Several timely and relevant topics will be presented for discussion in the online forums. Students will be expected to present their ideas as well as thoughtfully reflect on the comments of other students.

Ethical Situational Paper
The analysis paper will involve finding a relevant and current (within the last 5 years) ethical dilemma in the BMET workplace and performing an analysis of both perspectives of this dilemma. The paper has a minimum length. This paper must be an analysis of the issue at hand (not society’s or just information brief) and the student must come to a conclusion(s) as to how they would have handled the issue (and why).

Grading:
50% Participation in Discussion Forums
50% Final paper
PURDUE SCHOOL OF ENGINEERING & TECHNOLOGY
COURSE OUTCOMES AND ASSESSMENT DATA SHEET

This is an internal document to identify and record expected outcomes and anticipated assessment strategies for all courses taught within the School of Engineering and Technology. Submission of this form, as noted below, is required and must accompany all new course and course change requests. Copies of this form should also be retained within the department and kept on file with the outline or syllabus for each course.

Course Number: AMET 493 Course Title: Ethics & Professionalism for SMETS

Procedure:

1. First, identify all instructional outcomes expected for this course, and then select all ABET outcomes which are consistent with those anticipated objectives from TABLE 1 below.

<table>
<thead>
<tr>
<th>#</th>
<th>TECHNOLOGY - TAC Criteria #1 (Proposed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Demonstrate an appropriate mastery of the knowledge, techniques, skills and modern tools of their discipline.</td>
</tr>
<tr>
<td>2</td>
<td>Apply current knowledge and adapt to emerging applications in mathematics, science, engineering and technology.</td>
</tr>
<tr>
<td>3</td>
<td>Conduct, analyze and interpret experiments and apply experimental results to improve processes.</td>
</tr>
<tr>
<td>4</td>
<td>Apply creativity in the design of systems, components or processes appropriate to program objectives.</td>
</tr>
<tr>
<td>5</td>
<td>Function effectively on teams.</td>
</tr>
<tr>
<td>6</td>
<td>Identify, analyze and solve technical problems.</td>
</tr>
<tr>
<td>7</td>
<td>Communicate effectively.</td>
</tr>
<tr>
<td>8</td>
<td>Recognize the need for and possess the ability to pursue lifelong learning.</td>
</tr>
<tr>
<td>9</td>
<td>Understand professional, ethical and societal responsibilities.</td>
</tr>
<tr>
<td>10</td>
<td>Recognize contemporary professional, societal and global issues and be aware of and respect diversity.</td>
</tr>
<tr>
<td>11</td>
<td>Have a commitment to quality, timeliness and continuous improvement.</td>
</tr>
</tbody>
</table>

2. Subsets for each of the six IUPUI Principles of Undergraduate Learning (PUL) are given on the reverse side in TABLE 2. Using a number corresponding to each ABET outcome identified from TABLE 1 above to select a column, place a “√” or “X” mark in the applicable TABLE 2 row(s) cell for each PUL. Courses will often address multiple ABET outcomes and ABET outcomes frequently will overlap more than one PUL subset. Thus, it is expected completed data sheets may contain marks in several cells thereby indicating the course simultaneously satisfies multiple Principles of Undergraduate Learning while fulfilling its intended ABET objective(s).

3. After completing TABLE 2, briefly define or explain how the course outcomes or objectives will be evaluated within the context of the departmental assessment program in the space below:

Will review Code of Conduct for Outcome #9
Will review Sexual Harassment for Outcome #10
Will review Global Issues for Outcome #10

Submitted by: [Signature] Date: 2/19/08
### TABLE 2 - MATRIX OF EXPECTED COURSE OUTCOMES

(Suggestion - while completing Table 2, place a copy of the ABET outcomes from Table 1 along side for easy cross referencing.)

<table>
<thead>
<tr>
<th>PRINCIPLES OF UNDERGRADUATE LEARNING - &quot;Require All Students to Demonstrate An Ability To:&quot;</th>
<th>TECHNOLOGY OUTCOMES - TAC CRITERIA #1; items (a) to (k)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Express ideas and facts effectively in written formats</td>
<td>a</td>
</tr>
<tr>
<td>1(b) Comprehend, interpret, and analyze texts</td>
<td></td>
</tr>
<tr>
<td>1(c) Communicate orally in one-on-one and group settings</td>
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<tr>
<td>1(d) Solve problems that are quantitative in nature</td>
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</tr>
<tr>
<td>1(e) Make efficient use of information resources and technology for personal and professional needs</td>
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<tr>
<td>2(a) Analyze complex issues and make informed decisions</td>
<td></td>
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<tr>
<td>2(b) Synthesize information in order to arrive at reasoned conclusions</td>
<td></td>
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<tr>
<td>2(c) Evaluate the logic, validity, and relevance of data</td>
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<tr>
<td>2(d) Solve challenging problems</td>
<td></td>
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<tr>
<td>2(e) Use knowledge and understanding to generate and explore new questions</td>
<td></td>
</tr>
<tr>
<td>3(a) Apply knowledge to enhance personal lives</td>
<td></td>
</tr>
<tr>
<td>3(b) Apply knowledge to meet professional standards and competencies</td>
<td></td>
</tr>
<tr>
<td>3(c) Apply knowledge to further the goals of society</td>
<td></td>
</tr>
<tr>
<td>4(a) Demonstrate substantial knowledge and understanding of at least one field of study</td>
<td></td>
</tr>
<tr>
<td>4(b) Compare and contrast approaches to knowledge in different disciplines</td>
<td></td>
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<tr>
<td>4(c) Modify their approach to an issue or problem based on the contexts and requirements of particular situations</td>
<td></td>
</tr>
<tr>
<td>5(a) Compare and contrast the range of diversity and universality in human history, societies, and ways of life</td>
<td></td>
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<tr>
<td>5(b) Analyze and understand the interconnectedness of global and local concerns</td>
<td></td>
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<tr>
<td>5(c) Operate with civility in a complex social world</td>
<td></td>
</tr>
<tr>
<td>6(a) Make informed and principles choices regarding conflicting situations in their personal and public lives and to foresee the consequences of these choices</td>
<td></td>
</tr>
<tr>
<td>6(b) Recognize the importance of aesthetics in their personal lives and to society</td>
<td></td>
</tr>
</tbody>
</table>
**PURDUE UNIVERSITY**

REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(100-400 LEVEL)

DEPARTMENT: Engineering Technology  
EFFECTIVE SESSION: 4088

**INSTRUCTIONS:** Please check the items below which describe the purpose of this request.

- [x] New course with supporting documents
- [ ] Add existing course offered at another campus
- [ ] Expiration of a course
- [ ] Change in course number
- [ ] Change in course title
- [ ] Change in course credit type
- [ ] Change in course attributes (department head signature only)
- [ ] Change in instructional hours
- [ ] Change in course description
- [ ] Change in course requisites
- [ ] Change in semesters offered (department head signature only)
- [ ] Transfer from one department to another

**PROPOSED:**

Subject Abbreviation: BMET  
Course Number: 493  
Long Title: Ethics and Professionalism for BMETs  
Short Title: Ethics Prof. for BMETs

**EXISTING:**

Subject Abbreviation:  
Course Number:  
Long Title: Ethics and Professionalism for BMETs  
Short Title: Ethics Prof. for BMETs

**TERMS OFFERED:**

Check All That Apply:  
- [x] Summer  
- [x] Fall  
- [x] Spring

**CAMPUS(ES) INVOLVED:**

- Calumet  
- Cont Ed  
- Ft. Wayne  
- Tech Statewide  
- W. Lafayette  
- Indianapolis

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

### CREDIT TYPE

1. Fixed Credit: Cr. Hrs: ___
2. Variable Credit Range:  
   Minimum Cr. Hrs: ___  
   Maximum Cr. Hrs: ___
3. Equivalent Credit: Yes [x] No [ ]
4. Thesis Credit: Yes [x] No [ ]

### COURSE ATTRIBUTES

1. Pass/Not Pass Only  
2. Satisfactory/Unsatisfactory Only  
3. Repeatable  
4. Credit by Examination  
5. Designator Required  
6. Special Fees  
7. Registration Approval Type  
   - Department [ ]  
   - Instructor [ ]
8. Variable Title  
9. Remedial  
10. Honors  
11. Full Time Privilege  
12. Off Campus Experience

### COURSE DESCRIPTION

P: Senior standing. Students will explore ethical, social, political, legal and ecological issues that practicing BMETs may encounter. Particular emphasis will be placed on patient safety and privacy issues.

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**Cross-Listed Courses**

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**OFFICE OF THE REGISTRAR**