New Course Request

Check Appropriate Boxes:  Undergraduate credit [✓]  Graduate credit [ ]  Professional credit [ ]

1. School/Division  School of Engineering and Technology
2. Academic Subject Code  BME
3. Course Number  C498  (must be cleared with University Enrollment Services)
4. Instructor
5. Course Title  Cooperative Education Practice V

Recommended Abbreviation (Optional)  Coop Educ Practi V  

(Limited to 32 Characters including spaces)

6. First time this course is to be offered (Semester/Year):  Summer 2007
7. Credit Hours: Fixed at _____ 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: Sophomore standing and program advisor approval. A semester or summer of external, full-time, related career experiences designed to enhance the student’s academic program and intended career with a business, industry, or government agency. A comprehensive written report on the practice is required.

11. Lecture Contact Hours: Fixed at _____ or Variable from _____ to _____
12. Non-Lecture Contact Hours: Fixed at _____ or Variable from _____ to _____
13. Estimated enrollment:  _____ of which _____ percent are expected to be graduate students.
14. Frequency of scheduling:  every semester
15. Justification for new course:  Supports co-op experiences for the new BME undergraduate major
16. Are the necessary reading materials currently available in the appropriate library?  Yes [✓]  No [ ]
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.

Submitted by:

Date 1/23/07

Department Chairman/Division Director

Date ____________

Dean of Graduate School (when required)

Approved by:

Date 2/21/07

Dean

Chancellor/Vice-President

University Enrollment Services

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

**DEPARTMENT** Biomedical Engineering  
**EFFECTIVE SESSION** Summer 2007

**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 attributes (department head signature only)
- [ ] Change in course number
- [ ] Change in course title
- [ ] Change in course credit/type
- [ ] 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: BME
- Course Number: C498
- Long Title: Cooperative Education Practice V
- Short Title: Coop Educ Pract V

**EXISTING:**
- Subject Abbreviation
- Course Number
- Long Title: Cooperative Education Practice V
- Short Title: Coop Educ Pract V

**TERMS OFFERED**
- Summer: [x]  
- Fall: [x]  
- Spring: [x]

**CAMPUS(ES) INVOLVED**
- [x] Calumet
- [ ] Cont Ed
- [ ] Ft. Wayne
- [ ] N. Central
- [ ] Tech Statewide
- [x] 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.  
  (Check One) To: Maximum Credit Hours
- 3. Equivalent Credit: Yes
- 4. Thesis Credit: Yes

**INSTRUCTIONAL TYPE**
- Lecture
- Recitation
- Presentation
- Laboratory
- Lab Prep
- Studio
- Distance
- Clinic
- Experimental
- Research
- Ind. Study
- Pract/Observ

**COURSE DESCRIPTION (INCLUDE REQUISITES):**
P: Sophomore standing and program advisor approval. A semester or summer of externship, full-time, related career experiences designed to enhance the student's academic program and intended career with a business, industry, or government agency. A comprehensive written report on the practice is required.

**CREDIT TYPE**
- 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
- 8. Variable Title
- 9. Remedial
- 10. Honors
- 11. Full Time Privilege
- 12. Off Campus Experience

**CROSS-LISTED COURSES**

**OFFICE OF THE REGISTRAR**
BME C198, C298, C398, C496, C498 Biomedical Engineering Cooperative Education

Course description:

A semester or summer of external, full-time, related career experiences designed to enhance the student's academic program and intended career with a business, industry, or government agency. A comprehensive written report on the practice is required.

Prerequisites:

Appropriate class standing, and approval of program advisor.

Instructional Goals:

The BME Cooperative Education courses allow BME undergraduates to participate in, and gain credit for, the Cooperative Education program in the School of Engineering and Technology. These experiences are intended to give students the opportunity to explore engineering practice through real-world industry experience. The Cooperative Education program as administered by the School of Engineering and Technology is designed to encompass several semesters of alternating full-time work and full-time academic study. With approval of the department chair, students who participate in three semesters of co-op work in the same or related areas may apply those credits toward fulfilling a single technical elective on the BME undergraduate plan of study.

Required Textbook:

None

General Guidelines:

Students who take part in the co-op program are eligible to apply those experiences toward degree credit in BME. The following guidelines outline the criteria that must be met in order to apply these credits toward satisfying a BME or technical elective.

- At least three credits must be earned.

- These three (or more) credits must form a cohesive experience. Three co-op semesters at the same company would constitute a cohesive experience.

- In order to ensure this cohesiveness requirement is satisfied, the student must have a faculty mentor overseeing the co-op experience. The student and mentor must meet with the department chair to discuss the goals of the experience. A contract, signed...
by the student, will outline the requirements that must be met in order for the project to fulfill a technical elective.

- The student must provide a progress report to the faculty mentor or program director at the end of each semester. The mentor will determine the form of this report.

- Upon completion of the co-op experience, the student will give a presentation to the BME Undergraduate Curriculum Committee. The presentation should highlight the student’s accomplishments and demonstrate how the experience added depth or breadth to the student’s understanding of Biomedical Engineering.

- Only one research project, co-op experience, or internship may satisfy a technical elective. A student may still earn course credit for additional experiences, but they cannot be applied to satisfy a second technical elective.

**Outcomes:**

Upon completion of the course, students should be able to:

Perform the laboratory or analytical techniques necessary for the co-op experience. [a,b,c,e,k]

Describe the purpose, methods, and outcomes of the work to an engineering audience. [g,h]

Articulate the depth of knowledge gained in a subdiscipline of Biomedical Engineering as a result of the co-op experience. [g,h,j]