

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF A COURSE

DEPARTMENT Biomedical Engineering

EFFECTIVE SESSION 1/04, EFD23-03

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours |
| <input type="checkbox"/> 3. Expiration of a course | <input type="checkbox"/> 9. Change in course description |
| <input type="checkbox"/> 4. Change in course number | <input type="checkbox"/> 10. Change in course requisites |
| <input type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered |
| <input type="checkbox"/> 6. Change in course credit/type | |

PROPOSED:

Subject Abbreviation BME
Course Number 305

EXISTING:

Subject Abbreviation _____
Course Number _____

TERMS OFFERED
Check All That Apply:
Summer Fall Spring

Long Title Bioinstrumentation Laboratory

Short Title _____

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

CAMPUS(ES) INVOLVED
Calumet Fort Wayne
Indianapolis N. Central
W.Lafayette Cont Ed
Tech Statewide

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 2
2. Variable Credit Range:
Minimum Cr. Hrs _____
(Check One) To _____ Or _____
Maximum Cr. Hrs _____
3. Equivalent Credit: Yes No
4. Thesis Credit: Yes No

COURSE ATTRIBUTES: Check All That Apply.

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
Maximum repeatable credit: _____
4. Credit by Examination
5. Designator Required
6. Special Fees

7. Registration Approval Tvoe
Department Instructor _____
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn.)	Delivery Medium (Audio, Internet, Live, Text-Based, Video)
Lecture	50	1	16			Live
Recitation						
Presentation						Live
Laboratory	150	3	16			Live
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

COURSE DESCRIPTION (INCLUDE REQUISITES):

Sem. 1. Class 1, Lab 3, cr. 2, Prerequisite: PHYS 241, MA 266, or equivalent, Corequisite: BME 301
Introduction of laboratory instruments used to measure physiological events. Stimulation and conduction of electrical signals within the mammalian nervous system and other excitable tissues are demonstrated. Fundamental circuit elements and concepts include resistance, capacitance, inductance, op-amps, impedance, voltage, current, power, and frequency. Integrative design project addresses instrumentation amplifiers and filtering for obtaining an ECG, emphasizing the practical aspects of quantitative physiological measurements.

Calumet Undergrad Curriculum Committee	Date	Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date	Fort Wayne Chancellor	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date	<i>Robert Montgomery</i> 2/10/04	Date
North Central Department Head	Date	North Central Chancellor	Date	Undergrad Curriculum Committee	Date
<i>Greg Wodnicka</i> 2/6/04	Date	<i>Keith Jamieson</i> - 2/9/04	Date	Date Approved by Graduate Council	
West Lafayette Department Head	Date	West Lafayette School Dean	Date	Graduate Council Secretary	Date
Graduate Area Committee Convener	Date	Graduate Dean	Date	<i>Deb Sheets</i> 2/13/04	Date
				West Lafayette Registrar	Date

8/10 6 2004

RECEIVED
FEB 23 2004
ADMINISTRATION