Office of the Registrar
FORM 40 REV. 12/03

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

DEPARTMENT Biomedical Engineering — EFFECTIVE SESSION 1/04, EFD21-03

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

✔ 1. New course with supporting documents
2. Add existing course offered at another campus
3. Expiration of a course
4. Change in course number
5. Change in course title
6. Change in course credit/type
7. Change in course attributes
8. Change in instructional hours
9. Change in course description
10. Change in course requisites
11. Change in semesters offered

PROPOSED:

Subject Abbreviation BME
Course Number 301
Long Title Bioelectricity
Short Title
Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

EXISTING:

Subject Abbreviation
Course Number

TERMS OFFERED
Check All That Apply:
Summer Fall ✔ Spring

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

CREDIT TYPE
1.Fixed Credit: Cr. Hrs. 3
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 Type
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	3	16			Live
Recitation						
Presentation						
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

COURSE DESCRIPTION (INCLUDE REQUISITES):

Sem. 1. Class 3, cr. 3., Prerequisite: PHYS 241 and MA 166, or equivalent, Corequisite: BME 305 or ECE 202
Fundamentals of bioelectricity of the mammalian nervous system and other excitable tissues. Passive and active forms of electric signals in both the single cell and cell-cell communication, tissue and systemic bioelectricity, mathematical analysis including Nernst equation, Goldman equation, linear cable theory, and Hodgkin-Huxley Model of action potential generation and propagation.

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	Undergrad Curriculum Committee — 2/10/04
North Central Department Head — 2/6/04	North Central Chancellor — Date	Date Approved by Graduate Council
West Lafayette Department Head — Date	West Lafayette School Dean — 2/9/04	Graduate Council Secretary — Date
Graduate Area Committee Convener — Date	Graduate Dean — Date	West Lafayette Registrar — 2/13/04

OFFICE OF THE REGISTRAR