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

DEPARTMENT

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: ABE
Course Number: 301
Long Title: Modeling and Computational Tools in Biological Engineering
Short Title: Model&Comp Tool Bio Eng

EXISTING:

Subject Abbreviation
Course Number
Long Title
Short Title

TERMS OFFERED:
Check All That Apply:

- Summer
- Fall
- Spring

CAMPUS(ES) INVOLVED

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

CREDIT TYPE
1. Fixed Credit: Cr. Hrs. 3
2. Variable Credit Range: (Check One) To
   Minimum Cr. Hrs
   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
4. Credit by Examination
5. Designator Required
6. Special Fees

Instructional Type

- Lecture
- Laboratory
- Lab Prep
- Studio
- Distance
- Clinic
- Experiential
- Research
- Ind. Study
- Pract/Observ

Minutes Per Mgr 50
Meetings Per Week 3
Weeks Offered 16
% of Credit Allocated 100%

Delivery Method (Asyn. Or Syn.)

Deliver Medium (Audio, Internet, Live, Text Based, Video)

- Live

COURSE DESCRIPTION (INCLUDE REQUISITES):

Prerequisites: MA 265 and MA 266 or MA 262 and ABE 202
Introduction to principles of analysis, setup, and modeling of biological systems using fundamental principles of engineering. Development of algebraic and differential models of steady state and transient processes involving material and energy balances, elementary thermodynamic, transport, and kinetic reaction principles, and economics in biological engineering systems.

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 Date

North Central Department Head Date
North Central Chancellor Date

West Lafayette Department Head Date
West Lafayette School Dean Date
Graduate Dean Date

Graduate Area Committee Convener Date
Graduate Council Secretary Date

West Lafayette Registrar Date