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

DEPARTMENT: Biomedical Engineering

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

PROPOSED:
Subject Abbreviation: BME
Course Number: 204
Long Title: Biomechanics of Hard and Soft Tissues
Short Title: Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

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 ATTRAIBUTES: 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

TERMS OFFERED: Check All That Apply:
Summer Fall Spring

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

Instructional Type:
Lecture
Lab Prep
Studio
Distance
Clinic
Experiential
Research
Ind. Study
Pract/Observ

Minutes Per Mtg
Meetings Per Week
Weeks Offered
% of Credit Allocated
Delivery Method (Asyn. Or Syn.)
Delivery Medium (Audio, Internet, Live, Text-Based, Video)

Sem. 2 Class 3, cr. 3.
Prerequisite: ME 270, BIOL 295E, or equivalent
Corequisite: MSE 230 or equivalent
Covers the mechanics of biological materials, with applications in the musculo-skeletal system, nerves, spinal cord, and vascular tissue, down to the level of the cell. Topics include center of mass, moment of inertia, basic understanding of stresses, strains, and deformations, axial elements, pressure vessels, beams, torsion, viscoelasticity, and thermal stress. Case studies and problem solving sessions used to emphasize the unique biological criteria which must be considered when mechanically analyzing both soft and hard tissues.

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
Date Approved by Graduate Council
Graduate Council Secretary Date
Date
Graduate Area Committee Convener Date
Graduate Dean Date
West Lafayette Registrar Date
OFFICE OF THE REGISTRAR