Office of the Registrar FORM 40 REV. 7/05

PURDUE பூர் ERSTY Foxit Reader
REQUEST FOR ADDICTION (Print Form OR REVISION OF A Valuation Only.

4-06

DEPARTMENT

Biomedical Engineering

EFFECTIVE SESSION

Fall 2007

|  | <u> </u>   |  |  |   |  |  |
|--|--|--|--|---|--|--|
|  |  |  |  |   |  |  |
| INSTRUCTIONS: Please check the items below which describe the purpose of this request.  1. New course with supporting documents 2. Add existing course 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 12. Transfer from one department to another  |  |  |  |   |  |  |
| PROPOSED:  |  | EXISTING:  | tweez)   | TERMS OFFERED   |  |  |
| DME  |  | Subject Abbreviation                                       |  | Check All That Apply:                                     |  |  |
| Subject Abbreviation   | <del></del>  | Course Number  | .,   | Summer X Spring X Fall X                                  |  |  |
| Long Title Critical Literature Asses   | sment in I   | Biomedical Engineering                                     |  | CAMPUS(ES) INVOLVED Calumet Ft. Wayne                     |  |  |
| Crit Lit Access in RME Indianapolis  |  |  |  |   |  |  |
| Short Title Off Lit Assess in BME  Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)  W.Lafayette Tech Statewide   |  |  |  |   |  |  |
| Minimum Cr. Hrs  (Check One) To Or Maximum Cr. Hrs  3. Equivalent Credit: Yes No   | 1, Pass/Not<br>2. Satisfacto<br>3. Repeatab<br>Maximun<br>4. Credit by | m repeatable credit:<br>r Examination<br>for Required      | 7. Regis De X 8. Varial 9. Reme 10. Honor 11. Full T | edial   |  |  |
| Type Per Mtg Per Week Concluded to the control of t | Offered // 8 or 16   | Allocated (Asyn. Or Syn) Syn  In Biomedical Engineering is | Delivery Medium(Ai<br>Live,Text-Based, V<br>Live     | riewed, and critically analyzed using a S                 |  |  |
| ocratic method. Course topics may address bioelectricity, bioinstrumentation, biomaterials, biomechanics, bionanotechnology, computational and systems biology, medical and molecular imaging, neural engineering, or tissue engineering. At least four credits are required of PhD candidates. Prerequisite is consent of instructor.   |  |  |  |   |  |  |
| Calumet Undergrad Curriculum Committee   | Date C   | Calumet Department Head                                    | Date   | Calumet School Dean Date                                  |  |  |
| Fort Wayne Department Head   | Date F   | Fort Wayne School Dean                                     |  | Fort Wayne Chancellor                                     |  |  |
| Indianapolis Department Head   | Date Ir  | ndianapolis School Dean                                    | <del></del>  | Wished Ottuske 2/7/08 Undergrad Curriculum Committee Date |  |  |
| North Central Department Head  Sen R Works 2/2   | Date N   | North Central Chancellor                                   | Date - 2/867   | Date Approved by Graduate Council                         |  |  |
| West Lafayette Department Head   |  | Vest Lafayette College/School Dean                         | Date   | Graduate Council Secretary Date                           |  |  |
| Graduate Council Area Committee Chair  | Date G   | Graduate Dean  | Date   | West Lafayette Registrar Date                             |  |  |

## **Engineering Faculty Document No. 04-06**

August 30, 2006

To: Faculty of the Schools of Engineering

From: The Faculty of Weldon School of Biomedical Engineering

Subject: New Graduate Level Course - BME 691 Critical Literature Assessment in Biomedical

Engineering

The Faculty of the Weldon School of Biomedical Engineering has approved the following new course and submits it for your approval.

## BME 691 Critical Literature Assessment in Biomedical Engineering.

Sem. 1, 2, and SS. Class 1, Cr. 1.

May be repeated for credit.

Prerequisite: Consent of instructor.

Course Description: Literature relating to a current research topic in Biomedical Engineering is presented, reviewed, and critically analyzed using a Socratic method. Course topics may address bioelectricity, bioinstrumentation, biomaterials, biomechanics, bionanotechnology, computational and systems biology, medical and molecular imaging, neural engineering, or tissue engineering. At least four credits in different areas are required of Ph.D. candidates.

**Reasons:** The Weldon School of Biomedical Engineering (BME) has recently reformed graduate training requirements to include assessment of critical literature as an important required skill. This course addition will allow for consistent training in literature reviewing skills to be developed particularly by first-year PhD students in BME. Each semester several separate courses addressing a variety of BME related research topics will be offered. This will ensure that our students are knowledgeable of the breadth of activities within the field.

| Requested by | :                              | Date: |
|--------------|--------------------------------|-------|
| Title        | Head of Riomedical Engineering |       |

## BME 691 Critical Literature Assessment in Biomedical Engineering.

**Supporting Documentation:** 

Person-In-Charge: Andrew O. Brightman

Level: Graduate – typically first-year PhD students

Credit: 1

Class: Typically meets 1 time per week for 50 minutes (16 weeks) or for 100 minutes (8

weeks).

Course Objective: Students will be able to consistently and critically review technical literature in biomedical engineering and related fields and apply the information gained to their doctoral research and thesis and related technical writing.

Required text: Assigned literature in the specified area of biomedical engineering.

**Assessment:** Based on attendance, individual oral presentation of article review, and participation in group discussions.

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE COMMITTEE ON
FACULTY RELATIONS

| CFR Minutes    | 5       |
|----------------|---------|
| Date           | 9/29/06 |
| Chairman CFR _ |         |