

January 14, 2013

TO: The Faculty of the College of Engineering
FROM: The Faculty of the School of Biomedical Engineering
RE: Change to Undergraduate-Level Course BME 25600 prerequisites

The faculty of the School of Biomedical Engineering has approved the change in requisites of the course listed below. This action is now submitted to the Engineering Faculty with a recommendation for approval.

FROM: BME 25600 Physiological Modeling in Human Health
Term offered: Spring, Lecture 3, Cr. 3
Restriction: Must be enrolled in the School of Biomedical Engineering (BME)
Prerequisites: BIOL 23000 and CS 15900 and (PHYS 24100 or PHYS 27200)
Concurrent Prerequisites: MA 26200 or MA 26600

Description: Introduction to the physiology and medicine underlying practical problems in biomedical engineering, especially with respect to medical device development. Engineering skills taught and practiced within the context of human disease, injury, and illness on extended problem sets which include mathematical modeling and problem solving with appropriate documentation. Main physiological systems of focus are cardiovascular, pulmonary, and renal, and common afflictions thereof.

TO: BME 25600 Physiological Modeling in Human Health
Term offered: Spring, Lecture 3, Cr. 3
Restriction: Must be enrolled in the School of Biomedical Engineering (BME)
Prerequisites: BIOL 23000 and (PHYS 24100 or PHYS 27200)
Concurrent Prerequisites: CS 15900 and (MA 26200 or MA 26600)

Description: Introduction to the physiology and medicine underlying practical problems in biomedical engineering, especially with respect to medical device development. Engineering skills taught and practiced within the context of human disease, injury, and illness on extended problem sets which include mathematical modeling and problem solving with appropriate documentation. Main physiological systems of focus are cardiovascular, pulmonary, and renal, and common afflictions thereof.

Reason: Changing CS 15900 to a concurrent prerequisite thereby allowing students to take the class either before or simultaneously with BME 25600.

George R. Wodicka
George R. Wodicka, Professor and Head
Weldon School of Biomedical Engineering

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE ENGINEERING
CURRICULUM COMMITTEE

ECC Minutes #12

Date 1/19/2013

Chairman ECC

[Signature]

PURDUE UNIVERSITY
 REQUEST FOR ADDITION, EXPIRATION,
 OR REVISION OF AN UNDERGRADUATE COURSE
 (10000-40000 LEVEL)

Print Form

Office of the Registrar
 FORM 40 REV 11/09

DEPARTMENT Biomedical Engineering

EFFECTIVE SESSION Spring 2014

(201420)

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

- | | |
|---|---|
| <input type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes (department head signature only) |
| <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 checked="" type="checkbox"/> 10. Change in course requisites |
| <input type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:

EXISTING:

TERMS OFFERED

Subject Abbreviation _____

Subject Abbreviation BME

Check All That Apply:

Course Number _____

Course Number 25600

Summer Fall Spring

Long Title Physiological Modeling in Human Health

Short Title Physiological Modeling

CAMPUS(ES) INVOLVED

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Calumet | <input type="checkbox"/> N. Central |
| <input type="checkbox"/> Cont Ed | <input type="checkbox"/> Tech Statewide |
| <input type="checkbox"/> Ft. Wayne | <input checked="" type="checkbox"/> W. Lafayette |
| <input type="checkbox"/> Indianapolis | |

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 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

COURSE ATTRIBUTES: Check All That Apply

- | | |
|--|---|
| <input type="checkbox"/> 1. Pass/Not Pass Only | <input type="checkbox"/> 6. Registration Approval Type
Department <input type="checkbox"/> Instructor <input type="checkbox"/> |
| <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only | <input type="checkbox"/> 7. Variable Title |
| <input type="checkbox"/> 3. Repeatable
Maximum Repeatable Credit: _____ | <input type="checkbox"/> 8. Honors |
| <input type="checkbox"/> 4. Credit by Examination | <input type="checkbox"/> 9. Full Time Privilege |
| <input type="checkbox"/> 5. Special Fees | <input type="checkbox"/> 10. Off Campus Experience |

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture				
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

RECEIVED

APR 23 2013

OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Term offered: Spring, Lecture 3, Cr. 3. Restriction: Must be enrolled in the School of Biomedical Engineering (BME). Prerequisites: BIOL 23000 and (PHYS 24100 or PHYS 27200). Concurrent Prerequisites: GS 15900 and (MA 26200 or MA 26000). Description: Introduction to the physiology and medicine underlying practical problems in biomedical engineering, especially with respect to medical device development. Engineering skills taught and practiced within the context of human disease, injury, and illness on extended problem sets which include mathematical modeling and problem solving with appropriate documentation. Main physiological systems of focus are cardiovascular, pulmonary, and renal, and common afflictions thereof.

***COURSE LEARNING OUTCOMES:**

Calumet Department Head _____	Date _____	Calumet School Dean _____	Date _____
Fort Wayne Department Head _____	Date _____	Fort Wayne School Dean _____	Date _____
Indianapolis Department Head _____	Date _____	Indianapolis School Dean _____	Date _____
North Central Department Head _____	Date _____	North Central Chancellor _____	Date _____
West Lafayette Department Head _____	Date _____	West Lafayette College/School Dean _____	Date _____

Handwritten signatures and dates:
 _____ 1/30/13
 _____ 4/19/13
 _____ 5/14/13

OFFICE OF THE REGISTRAR

39-13
 UB 5/10/13