Office of the Registrar FORM 40 REV. 11/09

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

Print Form

EFD 170

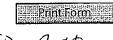
PEPARTMENT Biomedical Engineering EFFECTIVE SESSION Fall 2011					
INSTRUCTIONS: Please check the items below wh	ich describe the purpose of this re	quest.	ایمست.		
1. New course with supporting docume 2. Add existing course offered at anoth 3. Expiration of a course 4. Change in course number 5. Change in course title 6. Change in course credit/type		7. Change in course attributes (de 8. Change in instructional hours 9. Change in course description X 10. Change in course requisites 11. Change in semesters offered (d. 12. Transfer from one department to the semesters of the	department head signature only)		
PROPOSED:	EXISTING:		TERMS OFFERED Check All That Apply:		
Subject Abbreviation BME	Subject Abbreviation B	ME Sumi			
Course Number 20500	Course Number 2	06.	CAMPUS(ES) INVOLVED		
Long Title Biomolecular and Cellular Systems La	boratory	Calu Cont	Ed Tech Statewide		
Short Title Biomolec & Cellular Syst Lab		1 1	√ayne XW. Lafayette Inapolis		
Abbreviated title will be entered b	y the Office of the Registrar if omit	ted. (30 CHARACTERS ONLY)			
CREDIT TYPE		COURSE ATTRIBUTES: Check All That Apply	y		
1.Fixed Credit: Cr. Hrs. 1 2.Variable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. 3. Foulvalent Credit: Ves No. 14	Pass/Not Pass Only Satisfactory/Unsatisfactory Only Repeatable Maximum Repeatable Credit: Credit by Examination Special Fees	6. Registration Approval Department 7. Variable Title 8. Honors 9. Full Time Privilege 10. Off Campus Experier	Type Instructor		
ScheduleType Minutes Meetings Per	Weeks % of Credit		Cross-Listed Courses		
Per Mtg Week  Lecture  Recitation resentation Laboratory  Per Mtg Week  150 1	Offered Allocated				
Lab Prep			(S SANTONIO L'ANTINICA NO L'ANTINIO E MINISTERNA L'ANTINIO L'ANTINIO E L'ANTINIO L'ANTINIO L'ANTINIO L'ANTINIO		
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Distance Clinic					
Experiential	About deposit for the first fo				
Research					
Ind. Study					
Pract/Observ  COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):  Fall, Lab 3, Cr.1. Major Restriction: BME Only. Co-requisite: BIOL 23000 and BME 20100  Description: Introductory laboratory experience focused on engineering concepts and practices in the analysis of biomolecules and cells. Topics include fundamental quantitative techniques of analysis, methods of isolation, identification, and quantification of biomolecules and cells, and analysis of integrated biosystems. Concludes with student-driven design project.					
*COURSE LEARNING OUTCOMES:  1. Independently describe the theoretical basis of, quantification of biomolecules and cells. 2. Collect an accurate and understandable manner. 3. Concanalysis of a specific biomolecular or cellular related.	, record, process, statistically analy eptually design a simple analytical	vze and renoit experimental data relateu to trit	Stigitals of piotiolecales and cens in		
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	0.0		
North Central Department Head Date    Volume	North Central Chancellor  West Lafayette College/School Dean	Date  Obligation  Date  West Lafayette Re	sgistrar Sale		

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	No.

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## **PURDUE UNIVERSITY**

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



EFD 170

DEPARTMENT Biomedical Engineering EFFECTIVE SESSION Fall 2011					
INSTRUCTIONS: Please check the items below to	which describe the purpose of this requ	uest.			
1. New course with supporting docured at an experiment of a course offered at an experiment of a course.  3. Expiration of a course of a		8. Change in instruction 9. Change in course de 10. Change in course re 11. Change in semester 12. Transfer from one de 11.	escription quisites s offered (department head signature only) epartment to another  TERMS OFFERED Check All That Apply: Summer Spring  CAMPUS(ES) INVOLVED		
Long Title Biomolecular and Cellular Systems	Laboratory		Cont Ed Tech Statewide		
Short Title Biomolec & Cellular Syst Lab			Ft. Wayne XW. Lafayette Indianapolis		
Abbreviated title will be entered	by the Office of the Registrar if omittee	d. (30 CHARACTERS ONLY)			
CREDIT TYPE  1.Fixed Credit: Cr. Hrs.   2. Variable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs.   3. Equivalent Credit: Yes No ScheduleType Minutes Per Mtg Week  cture cture citation  Presentation Laboratory 150 1 Lab Prep Studio Distance Clinic Experiential Research Ind. Study	Pass/Not Pass Only     Satisfactory/Unsatisfactory Only     Repeatable     Maximum Repeatable Credit:     Credit by Examination     Special Fees	Depa 7. Variable Title 8. Honors 9. Full Time F	n Approval Type rtment   Instructor		
Pract/Observ	ALL				
COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS): Fall, Lab 3, Cr.1. Major Restriction: BME Only. Co-requisite: BIOL 23000 and BME 20100 Description: Introductory laboratory experience focused on engineering concepts and practices in the analysis of biomolecules and cells. Topics include fundamental quantitative techniques of analysis, methods of isolation, identification, and quantification of biomolecules and cells, and analysis of integrated biosystems. Concludes with student-driven design project.  *COURSE LEARNING OUTCOMES:					
1. Independently describe the theoretical basis of, and put into practice, fundamental analytical tools and techniques used in the isolation, characterization, and quantification of biomolecules and cells. 2. Collect, record, process, statistically analyze, and report experimental data related to the analysis of biomolecules and cells in an accurate and understandable manner. 3. Conceptually design a simple analytical method and/or tool for solving a medically-relevant problem based upon detection/ analysis of a specific biomolecular or cellular related abnormality.					
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			
Jack Woodska 10/19/10	North Central Changeton  North Central Changeton  Notes I afavette College School Dean	Date	_afavette Registrar Date		

OFFICE OF THE REGISTRAR

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TO:

The Faculty of the College of Engineering

FROM:

The Faculty of the School of Biomedical Engineering

RE:

Changes in Undergraduate-Level Course, BME 20500 Biomedical

Engineering Laboratory I, title and requisites

The Faculty of the School of Biomedical Engineering has approved the following changes to an existing course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From:

BME 20500 Biomedical Engineering Laboratory I

Term offered: Fall, Lab 3, Cr. 1

Prerequisite: CHM 11600, CS 15600, ENG 10600, and MA 16600, or

equivalent

Corequisite: BIOL 29500E, BME 20100

This course is an introductory laboratory experience that focuses on engineering concepts and practices used in the analysis of biomolecules and cells. Topics include fundamental quantitative techniques of analysis, methods of isolation, identification, and quantification of biomolecules and cells, and analysis of integrated biosystems. The course concludes with a student-driven design project.

To:

BME 20500 Biomolecular and Cellular Systems Laboratory

Term offered: Fall, Lab 3, Cr. 1

Restriction: Must be enrolled in the School of Biomedical Engineering

(BME)

Co-requisite: BME 20100

Concurrent prerequisite: BIOL 23000

Description: Introductory laboratory experience focused on engineering concepts and practices in the analysis of biomolecules and cells. Topics include fundamental quantitative techniques of analysis, methods of isolation, identification, and quantification of biomolecules and cells, and analysis of integrated biosystems. Concludes with student-driven design project.

Reason:

To provide a more descriptive course title for the students. The change in co-requisite reflects the new permanent number for the Biology course. A restriction is employed since this is a limited space laboratory course. This restriction, along with the co-requisite BME 20100, negates the need to list prerequisites on this course as well.

George R. Wodicka, Professor and Head Weldon School of Biomedical Engineering OF THE SCHOOLS OF ENGINEERING
BY THE ENGINEERING
CURRICULUM COMMITTEE

ECC Minutes # 26
5/13/2010

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