TO:

The Faculty of the College of Engineering

FROM:

The Faculty of the School of Biomedical Engineering

RE:

Changes to Undergraduate Course, BME 48900, Senior Design Project Lab

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

From:

BME 48900 Senior Design Project Lab

Terms offered: Fall, Lab 6, Cr. 2

Restriction: Must be enrolled in the School of Biomedical Engineering (BME)

Concurrent Prerequisite: BME 48800

Description: The biomedical engineering design process is completed starting from a preliminary system design. Students will work with their teammates to implement (e.g. build, test, iterate and evaluate) a solution to address a biomedical engineering problem statement and meet the technical specifications set forth. The resulting project design is presented and evaluated through an oral presentation, laboratory demonstration, and a final written document.

To:

BME 48901 Senior Design Project

Terms offered: Fall, Lab 8, Cr. 3

Restriction: Must be enrolled in the School of Biomedical Engineering (BME)

Concurrent Prerequisite: BME 49000

Description:

The biomedical engineering design process is completed starting from a preparatory design course, BME 39000, through a preliminary system design, build and test in Senior Design Project, BME 48901. Students will work with their teammates to implement (e.g. build, test, iterate and evaluate) a solution to address a biomedical engineering problem statement and meet the technical specifications set forth. The resulting project design is presented and evaluated through an oral presentation, laboratory demonstration, and a final written document.

Reason:

This change incorporates the material from the one credit preliminary senior project design, BME 48800, into the lab component. The original division of credits allowed flexibility across multiple semesters of senior design. However, our main mode is now the one semester senior design project lab, BME 48901, in the Fall. BME 48800 and BME 48900 will still be an option for students off sequence, but are no longer required in the plan of study.

George R. Wodicka

Dane A. Miller Head and Professor

Weldon School of Biomedical Engineering

Office of the Registrar

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE

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FORM 40 REV. 11/09	OR-	(10000-40)	000 LEVEL)	E COURSE		
DEPARTMENT Biomedical Engineering	g	EFF	ECTIVE SESS	SION Fall 2017	=	
INSTRUCTIONS: Please check the iter	ns below which desc	ribe the purpose of this re	equest.			
1. New course with support 2. Add existing course offer 3. Expiration of a course 4. Change in course numb 5. Change in course title 6. Change in course credit	ered at another camp	us	7. 8. 9. 10.	Change in instruction Change in course of Change in course re	onal hours description equisites ers offered (departn	ent head signature only) nent head signature only) her
PROPOSED:		EXISTING:		900000000000000000000000000000000000000		RMS OFFERED
Subject Abbreviation BME		Subject Abbreviation				eck All That Apply:
Course Number 48901		Course Number		4	CAME	PUS(ES) INVOLVED
Long Title Senior Design Project					Calumet Cont Ed	N. Central Tech Statewide
Short Title Senior Design Project					Ft. Wayne Indianapolis	
Abbreviated title will b	e entered by the Offic	ce of the Registrar if omit	ted. (30 CHARAC	TERS ONLY)	Indianapolis	
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	2. Satisfact 3. Repeata Maximur	n Repeatable Credit: Examination	COURSE AT	Depa 7. Variable Title 8. Honors 9. Full Time F	on Approval Type rrtment	Instructor
	etings Per Weeks	% of Credit		10. 0 04p	ао Ехропопос	Cross-Listed Courses
Per Mtg	Week Offered	Allocated				
COURSE DESCRIPTION (INCLUDE REC Restriction: Must be enrolled in the Sche The biomedical engineering design proc Senior Design Project, BME 48901. Stu engineering problem statement and mee laboratory demonstration, and a final wri *COURSE LEARNING OUTCOMES:	ool of Biomedical Eng ess is completed star dents will work with tl et the technical specif	gineering (BME), Concurr ting from a preparatory d neir teammates to implen	esign course, l nent (e.g. build	BME 39000, through , test, iterate and eva	aluate) a solution to	address a biomedical
Students will have demonstrated the abil design and testing of a system or device constraints. Effectively communicate skil issues, societal influences, and ethical a	to meet desired needs in oral and written	ds. Implement the engine form, both individually an	eering design p d as part of a t	process and project n eam. Explain/discuss	nanagement within s realistic design co	the context of relevant design onstraints, including regulatory
Calumet Department Head	Date Calumet S	chool Dean	1	Date		
Fort Wayne Department Head	Date Fort Wayne	School Dean		Date		
Indianapolis Department Head	Date Indianapolis	School Dean		Date		
North Central Department Head Design R. Whatelea	Date North Centr	al Chancellor		Date		
West Lafayette Department Head	Date West Lafay	ette College/School Dean		Date West La	afayette Registrar	Date