Chairman ECC R. Cipia

To: The Faculty of the College of Engineering

From: The Faculty of the School of Chemical Engineering

Re: Curriculum Change for the B.S. degree in Chemical Engineering

The faculty of the School of Chemical Engineering has approved the following change in curriculum for the B.S.ChE effective for students entering Purdue in the fall semester 2010. This action is now submitted to the Engineering Faculty with a recommendation for approval.

New Requirements: CHE 20500 is to become 4 credit hours incorporating a required one hour recitation each week. In light of this addition, the one credit hour of free elective currently required will be removed from the curriculum.

Reasons: In recent years this course has been structured as a three per week lecture with an optional practice, study, observation hour each week. Given the importance of CHE 20500 as the first CHE course, the faculty feels that all chemical engineering students need the additional time to review the lecture material and to further develop their problem solving skills which will lead to an improved understanding of the material being presented in the lectures.

Plan of Study

		Present	Proposed				
FRES	SHMAN Y	YEAR (First Year Engineering) First Semester					
(4)	СНМ	12300 or 11500 ^a Gen. Chemistry	no change				
(4)	ENGL	10600 or 10800(3) English Comp I					
(1)	ENGR	10000 First Year Engr Lec					
(3)	ENGR	12600 Intro to Engr Prb Solv&Comp					
(4) 16	MA	16500 or 16100 ^c Geom & Calc I					
		Second Semester					
(4) (3) (4)	CHM COM MA	12400 or 11600 Gen. Chemistry 11400 Fund. of Commun 16600 or 16200 Geom & Calc II	no change				
(<u>4)</u> 15	PHYS	17200 Mechanics	APPROVED FOR THE FACULTY OF THE SCHOOLS OF ENGINEERING BY THE ENGINEERING CURRICULUM COMMITTEE ECC Minutes #25				
			4/27/10				
			Date				

Present

Proposed

SOPHOMORE YEAR								
(0) (3) (3) (1) (4) (3) (3) (1)	CHE 20000 CHE 20500 CHM 26100 CHM 26300 MA 26100 PHYS 24100 Gen-Ed Elective	Semester Chem Engr Seminar Chemical Engr Calc Organic Chemistry I Organic Chem Lab I Multivar Calculus Electricity & Optics Semester Chem Engr Thermo Statistical Modeling Organic Chemistry II Organic Chm Lab II	(0) (4) (3) (1) (4) (3) (3) 18	CHE CHM CHM MA PHYS	20500 Chem Engr Seminar 20500 Chemical Engr Calc 26100 Organic Chemistry I 26300 Organic Chem Lab I 26100 Multivar Calculus 24100 Electricity & Optics Elective			
(4) (3) 18	MA 26200 Gen-Ed Elective	Liner Algebra & Diff Eq.						
JUNIOR YEAR								
Fifth Semester								
(3) (4) (3) (3) (3) 16	CHE 30600 CHE 37700 CHM 37000 BIOL 23000 MA 30300	Staged Separations Momentum Transfer Physical Chemistry Biology of the Living Cell Diff Eqs for Engr			no change			
Sixth Semester								
(0) (3) (4) (4) (3) (3) 17	CHE 30000 CHE 33000 CHE 34800 CHE 37800 Gen-Ed Elective Engineering Ele				no change			
SENIOR YEAR								
Seventh Semester								
(1) (3) (3) (3) (3) (3) (3)	CHE 40000 CHE 45600 CHE 44900 Gen-Ed Elective CHE Elective Technical Electiv	Professional Guidance Process Dyn & C'trol Design + Cost Analysis			no change			

Eighth Semester

(4)	CHE 43500	Chem Engr Lab						
(2)	CHE 45000	DesignProcess Sys	(4)	CHE	43500	Chem Engr Lab		
(3)	Gen-Ed Elective	(2)	CHE	45000	DesignProcess Sys			
(3)	Gen-Ed Elective		(3)	Gen-Ed Elective				
(3)	CHE Elective	(3)	Gen-E	d Elective				
	(1) Free Elective			CHE Elective				
16			15					
Total:	131							

Total: 131

Footnotes:

Present

- ^a ChE prefers that students take the CHM 12300/12400 sequence. Students who have taken CHM 11500/11600 will also be accepted into the School of Chemical Engineering.
- b Students who complete ENGL 10800 will need 1 free elective hour in addition to the stated requirements
- The MA 16500/16600 (4 cr. each) sequence is preferred; however, the MA16100/16200 (5 cr. each) sequence may be taken. If MA 16100 and/or 16200 is taken, these courses will be accepted as only 4 credit hours each toward meeting the graduation requirements for ChE.
- d A "C" or better must be earned in CHE 20500 to continue to enroll in CHE courses.

Proposed

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- d A "C" or better must be earned in CHE 20500 to continue to enroll in CHE courses.

A. Varma, Head

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School of Chemical Engineering

2/11/10