

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 and submits it for your approval.

New Requirements: The change indicated below alters the junior year sequence of classes. CHE 33000 will be removed from the curriculum as a required course. In light of the removal of this requirement, an additional 3 credits of engineering elective will be required. This change will be effective for current Chemical Engineering juniors (all students graduating in May 2012 or after).

Reasons: The change is proposed in response to the Dean's Curriculum Challenge. In reviewing the curriculum, it was found that the material taught in CHE 33000 is not such that all students need to enroll. It was proposed that the course continue to be taught as an elective option but on an alternating year basis, thereby eliminating 1 instructor need every other spring semester.

	Present	Proposed
FRESHMAN YEAR (First Year Engineering)		
	<u>First Semester</u>	
(4)	CHM 12300 or 11500 ^a Gen. Chemistry	
(4)	ENGL 10600 or 10800 (3) ^b English Comp	no change
(2)	ENGR 13100 Transforming Ideas To Innovation I	
(4) 14	MA 16500 or 16100 ^c Geom & Calc I	
	<u>Second Semester</u>	
(4)	CHM 12400 or 11600 Gen. Chemistry	
(3)	COM 11400 Fund. of Commun	
(4)	MA 16600 or 16200 Geom & Calc II	no change
(2)	ENGR 13200 Transforming Ideas To Innovation II	
(4) 17	PHYS 17200 Mechanics	

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

ECC Minutes #13
 Date 3/9/2011
 Chairman ECC R. Cipra

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Present**Proposed****SOPHOMORE YEAR**Third Semester

(0)	CHE	20000	Chem Engr Seminar
(4)	CHE	20500 ^d	Chemical Engr Calc
(3)	CHM	26100	Organic Chemistry I
(1)	CHM	26300	Organic Chem Lab I
(4)	MA	26100	Multivar Calculus
(3)	PHYS	24100	Electricity & Optics
<u>(3)</u>	Gen-Ed Elective		
18			

no change

Fourth Semester

(4)	CHE	21100	Chem Engr Thermo
(3)	CHE	32000	Statistical Modeling
(3)	CHM	26200	Organic Chemistry II
(1)	CHM	26400	Organic Chm Lab II
<u>(4)</u>	MA	26200	Liner Algebra & Diff Eq.
15			

no change

JUNIOR YEARFifth Semester

(3)	CHE	30600	Staged Separations
(4)	CHE	37700	Momentum Transfer
(3)	CHM	37000	Physical Chemistry
(3)	BIOL	23000	Biology of the Living Cell
<u>(3)</u>	MA	30300	Diff Eqs for Engr
16			

no change

Sixth Semester

(0)	CHE	30000	Chem Engr Seminar
(3)	CHE	33000	Prin of Molec Engr
(4)	CHE	34800	Chem Reaction Engr
(4)	CHE	37800	Heat & Mass Transfr
(3)	Gen-Ed Elective		
<u>(3)</u>	Engineering Elective		
17			

(0)	CHE	30000	Chem Engr Seminar
(4)	CHE	34800	Chem Reaction Engr
(4)	CHE	37800	Heat & Mass Transfr
(3)	Gen-Ed Elective		
(3)	Engineering Elective		
<u>(3)</u>	Engineering Elective		
17			

SENIOR YEARSeventh Semester

(1)	CHE	40000	Professional Guidance
(4)	CHE	43500	Chem Engr Lab
(3)	CHE	45600	Process Dyn & C'trol
(3)	Gen-Ed Elective		
(3)	Gen-Ed Elective		
<u>(3)</u>	CHE Elective		
17			

no change

Eighth Semester

(4)	CHE	45000	Design...Process Sys
(3)	CHE Elective		
(3)	Gen-Ed Elective		
(3)	Gen-Ed Elective		
<u>(3)</u>	Technical Elective		
16			

no change

Total: 130

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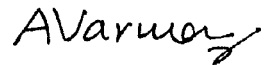
Footnotes:

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
- ^c 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

no change



A. Varma, Head
School of Chemical Engineering
12/7/10