Engineering Faculty Document No. 25-06
December 14, 2006

To: The Faculty of the College of Engineering
From: The Faculty of the School of Chemical Engineering
Subject: Change in Minimum Degree Requirements for Chemical Engineering (B.S. ChE)

The Faculty of the School of Chemical Engineering has approved the following changes in the minimum degree requirements for the B.S. degree in Chemical Engineering. This action is now submitted to the Engineering Faculty with a recommendation for approval.

These changes are in response to changes in the First-Year Engineering Program effective for students entering Purdue in the Fall Semester 2006.

The implementation of the first-year program into our curriculum is summarized:

(1) The number of credit hours required for graduation is unchanged at 131.

(2) The suggested plan of study is unchanged for the sophomore year, with 3 hours of Gen-Ed elective moving from semester 1 to semester 6 and 1 hour of free elective moving from semester 6 to semester 8. The plan of study assigns 31 credit hours total to the first year.

(4) We retain COM 114 as a required course in our curriculum. Students who enter our program without this course will be accommodated by a revised plan of study that includes the course in the sophomore year.

(5) We retain CHM 116 or CHM 124 as a required course in our curriculum. Students who Enter our program without this course will be accommodated by a revised plan of study that includes this course in the sophomore year. CHM 124 or CHM 116 is now a co-requisite for CHE 205 instead of a pre-requisite so as to allow students taking the CHM requirement during the sophomore year to stay on course with the standard curriculum.

(7) ENGR 106 (2 hrs) and CS 152 (2 hours) are replaced by ENGR 126 (3 hrs).

(8) PHYS 152 becomes 172. PHYS 152 and PHYS 172 are official university equivalents per the Office of the Registrar and are therefore interchangeable in all cases – anywhere PHYS 172 is listed as a requirement, either course will be accepted. Only PHYS 172 will be officially listed as it is the new requirement.

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE COMMITTEE ON
FACULTY RELATIONS

CFR Minutes 18

Date 4-5-07

Chairman CFR Michael J. Stoutsh

CURRENT PLAN OF STUDY
SCHOOL OF CHEMICAL ENGINEERING
Purdue University
Students beginning Fall 2005-Summer 2006

Total Credit Hours - 131

FRESHMAN YEAR

First Semester			
(4)	CHM	123 or 115[a]	Gen. Chemistry
(4)	ENGL	106 or 108	(3) English Comp I
(1)	ENGR	100	Freshman Engr Lec
(2)	ENGR	106	Intro to Computer
(4)	MA	165 or 161[b]	Geom & Calc I
(3)	Gen-Ed Elective		
17 or 18			

Second Semester			
(4)	CHM	124 or 116[a]	Gen. Chemistry
(3)	COM	114	Fund. of Commun
(4)	MA	166 or 162	Geom & Calc II
(4)	PHYS	152	Mechanics
(2)	CS	156[c]	C Programming
17			

SOPHOMORE YEAR

Third Semester			
(0)	CHE	200	Chem Engr Seminar
(3)	CHE	205[e]	Chemical Engr Calc
(3)	CHM	261	Organic Chemistry I
(1)	CHM	263	Organic Chem Lab I
(4)	MA	261	Multivar Calculus
(3)	PHYS	241	
(3)	Gen-Ed Elective		
17			

Fourth Semester			
(3)	CHE	211	Chem Engr Thermo
(3)	CHE	320	Statistical Modeling
(3)	CHM	262	Organic Chemistry II
(1)	CHM	264	Organic Chm Lab II
(4)	MA	262	Lin Algebra and Diff Eq
(3)	Gen-Ed Elective		
17			

JUNIOR YEAR

Fifth Semester			
(3)	CHE	306	Staged Separations
(3)	CHE	377	Momentum Transfer
(3)	CHM	370	Physical Chemistry
(2)	CHM	376	Physical Chem Lab
(3)	BIOL	295E	Biol of the Loving Cell
(3)	MA	303	Diff Eq for Engineering
17			

Sixth Semester			
(0)	CHE	300	Chem Engr Seminar
(3)	CHE	330	Prin of Molec Engr
(3)	CHE	348	Chem Reaction Engr
(3)	CHE	378	Heat & Mass Transfr
(3)	I E	343	Engr Cost Analysis
(3)	Engineering Elective		
(1)	Free Elective		
16			

SENIOR YEAR

Seventh Semester			
(0)	CHE	400	Chem Engr Seminar
(3)	CHE	434	Chemical Engr Lab I
(3)	CHE	456	Process Dyn & C'trol
(3)	Gen-Ed Elective		
(3)	Technical Elective		
(3)	CHE Elective		
15			

Eighth Semester			
(3)	CHE	435	Chem Engr Lab II
(3)	CHE	450	Design...Process Sys
(3)	Gen-Ed Elective		
(3)	CHE Elective		
(3)	Gen-Ed Elective		
15			

[a] ChE prefers that students take the CHM 123/124 sequence. Students who have taken CHM 115/116 will also be accepted into the School of Chemical Engineering.

[b] The MA 165/166 (4 cr. each) sequence is preferred; however, the MA161/162 (5 cr. each) sequence may be taken. If MA 161 and/or 162 is taken, these courses will be accepted as only 4 credit hours each toward meeting the graduation requirements for ChE.

[c] C Programming is preferred by ChE; however, FORTRAN will be accepted. If CS 158 or ENGR 117 (both 3 cr. each) are taken, the extra credit may be used toward meeting the "free" elective requirements.

[e] A "C" or better must be earned in CHE 205 to continue to enroll in CHE courses.

PROPOSED PLAN OF STUDY
SCHOOL OF CHEMICAL ENGINEERING
Purdue University
Students beginning Fall 2006 and after

Total Credit Hours - 131

FRESHMAN YEAR

First Semester

(4)	CHM	123 or 115[a]	Gen. Chemistry
(4)	ENGL	106 or 108	(3) English Comp I
(1)	ENGR	100	Freshman Engr Lec
(3)	**ENGR**	**126**	**Intro to Engr Prb Solv&Comp**
(4)	MA	165 or 161[b]	Geom & Calc I

16/15

Second Semester

(4)	CHM	124 or 116	Gen. Chemistry
(3)	COM	114	Fund. of Commun
(4)	MA	166 or 162	Geom & Calc II
(4)	**PHYS**	**172**	**Mechanics**

15

SOPHOMORE YEAR

Third Semester

(0)	CHE	200	Chem Engr Seminar
(3)	CHE	205[c]	Chemical Engr Calc
(3)	CHM	261	Organic Chemistry I
(1)	CHM	263	Organic Chem Lab I
(4)	MA	261	Multivar Calculus
(3)	PHYS	241	Electricity & Optics
(3)	Gen-Ed Elective		

17

Fourth Semester

(3)	CHE	211	Chem Engr Thermo
(3)	CHE	320	Statistical Modeling
(3)	CHM	262	Organic Chemistry II
(1)	CHM	264	Organic Chm Lab II
(4)	MA	262	Liner Algebra & Diff Eq.
(3)	Gen-Ed Elective		

17

JUNIOR YEAR

Fifth Semester

(3)	CHE	306	Staged Separations
(3)	CHE	377	Momentum Transfer
(3)	CHM	370	Physical Chemistry
(2)	CHM	376	Physical Chem Lab
(3)	BIOL	295E	Biology of the Living Cell
(3)	MA	303	Diff Eqs for Engr

17

Sixth Semester

(0)	CHE	300	Chem Engr Seminar
(3)	CHE	330	Prin of Molec Engr
(3)	CHE	348	Chem Reaction Engr
(3)	CHE	378	Heat & Mass Transfr
(3)	I E	343	Engr Cost Analysis
(3)	**Gen-Ed Elective**		
(3)	Engineering Elective		

18

SENIOR YEAR

Seventh Semester

(0)	CHE	400	Chem Engr Seminar
(3)	CHE	434	Chemical Engr Lab I
(3)	CHE	456	Process Dyn & C'trol
(3)	Gen-Ed Elective		
(3)	Technical Elective		
(3)	CHE Elective		

15

Eighth Semester

(3)	CHE	435	Chem Engr Lab II
(3)	CHE	450	Design...Process Sys
(3)	Gen-Ed Elective		
(3)	Gen-Ed Elective		
(3)	CHE Elective		
(1/2)	**Free Elective**		

16/17

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[c] A "C" or better must be earned in CHE 205 to continue to enroll in CHE courses.

REVISED 3/7/06