

The addition or removal of any graduation requirement in a major requires that this form, accompanied by any supporting documentation, be completed and approved as indicated below.

College/School Engineering Department Chemical Engineering

Degree level B.S. Program title Chemical Engineering

To be initiated with catalog year 20 05 /20 06

Brief description of requested changes (attach a more detailed description and any supporting documentation)

Change one (of three) technical electives to "Restricted Elective (Engineering)." See attached memo and revised curriculum listing.

APPROVALS

On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Office of the Registrar.

Paul A. Jennings 12/5/03
Originator Date Chair, Graduate Council Date

Paul A. Jennings 12/5/03
Department Head/Program Chair Date OR

[Signature] 12-5-03
Dean or Associate Dean Date Chair, Undergraduate Curriculum Committee Date

Registrar's Use Only Operator Init Date

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## MEMORANDUM

**To:** Clayton Baum, Chair of Undergraduate Curriculum Committee  
**From:** Paul A. Jennings, Head, Chemical Engineering Dept.  
**Date:** 12 / 2 / 03  
**Subject:** Changing Graduation Requirement for Chemical Engineering Program

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The Chemical Engineering Department requests that one technical elective, presently required in the spring of the senior year, be replaced with a "Restricted Elective (Engineering)." The reason for the requested change is that the recent ABET accreditation audit states that the B.S. degree program (7033) curriculum is one credit hour short of the required "engineering science and design" content. Although all of last year's graduates did elect to take at least one engineering course as a technical elective, this change would require such a choice and would satisfy ABET requirements. Since the elective appears in the senior year of the curriculum, a course at the 3000 level or above would be required to satisfy the elective. There is no change in total credit hours required for the degree.

# BACHELOR OF SCIENCE in CHEMICAL ENGINEERING (7033)

## 2005-2006 Catalog

### YEAR 1 -- Fall

BUS 1301	Intro to Economics .....	3
CHE 1101	Intro to Chemical Engineering .....	2
CHM 1101	General Chemistry 1 .....	4
COM 1101	Composition and Rhetoric .....	3
MTH 1001	Calculus 1 .....	<u>4</u>
		16

### YEAR 1 -- Spring

CHE 1102	Intro to Chemical Engineering 2 .....	1
CHM 1102	General Chemistry 2 .....	4
COM 1102	Writing About Literature .....	3
MTH 1002	Calculus 2 .....	4
PHY 1001	Physics 1 .....	4
PHY 2091	Physics Laboratory 1 .....	<u>1</u>
		17

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### YEAR 2 -- Fall

CHE 2101	Chemical Process Principles 1 .....	3
CHM 2001	Organic Chemistry 1 .....	3
CHM 2011	Organic Chemistry Laboratory 1 .....	2
MTH 2201	Differential Equations .....	4
PHY 2002	Physics 2 .....	4
PHY 2092	Physics Laboratory 2 .....	<u>1</u>
		17

### YEAR 2 -- Spring

CHE 2102	Chemical Process Principles 2 .....	3
CHE 3260	Materials Science and Engineering .....	3
CHE 3265	Materials Laboratory .....	1
CHM 2002	Organic Chemistry 2 .....	3
HUM 2051	Civilization I: Ancient - Medieval .....	3
MTH 2001	Calculus 3 .....	<u>4</u>
		17

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YEAR 3 -- Fall

CHE 3131	Transport Processes 1 .....	4
CHE 3141	Process Modeling Principles .....	2
CHE 3170	Intro to Environmental Engineering .....	3
CHM 3001	Physical Chemistry 1 .....	3
CHM 3011	Physical Chemistry Laboratory 1 .....	2
HUM 2052	Civiliz. II: Renaissance - Modern .....	<u>3</u>
		17

YEAR 3 -- Spring

CHE 3110	Chemical Eng. Thermodynamics .....	3
CHE 3132	Transport Processes 2 .....	4
CHE 3180	Introduction to Design Projects .....	1
CHE 4122	Chemical Process Control .....	4
COM 2223	Sci. & Tech. Communications .....	3
_____	Restricted Elective (Adv.Chem) .....	<u>3</u>
		18

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YEAR 4 -- Fall

CHE 4105	Unit Operations Laboratory .....	2
CHE 4131	Separation Processes .....	3
CHE 4151	Chemical Eng. Reactor Design .....	3
CHE 4181	Chemical Eng. Plant Design 1 .....	3
_____	Restricted Elective (Engineering) .....	3
_____	Humanities Elective .....	<u>3</u>
		17

YEAR 4 -- Spring

CHE 4182	Chemical Eng. Plant Design 2 .....	3
_____	Technical Elective * .....	6
_____	Hu / SS Elective .....	3
_____	Free Elective * .....	<u>3</u>
		15

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Total Credit Hours Required = 134

\* *BUS 3xxx, Restricted Elective (Business) may be taken in place of three credits of Technical Elective. CWE 1001 may be taken in place of three credits of Free Elective. CWE 2001 may be taken in place of three credits of Technical Elective.*