

**TO:** The Faculty of the College of Engineering  
**FROM:** The Davidson School of Chemical Engineering  
**RE:** Change in Requirements (ENGL 10600 & COM 11400)

The faculty of the Davidson School of Chemical Engineering has approved the following changes to the ENGL 10600 and COM 11400 requirement. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**From:** (4cr) ENGL 10600 English Composition  
**To:** (3cr) Written Communication

**And**

**From:** (3cr) COM 11400 Fundamentals of Speech  
**To:** (3cr) Oral Communication

**Reason:** With the implementation of the university core and the increasing number of course options available for students in the areas of composition and communication, changing our current requirements to encompass all university approved options for Written Communication and Oral Communication will help our curriculum be more in line with University Core and accommodate future alternatives in the first year engineering program. Students earn 4 credits for completing the ENGL 10600 requirement, which is in the Fall 1<sup>st</sup> Year in our plan of study. This will now be replaced by a 3 credit Written Communication. The credit in excess will be moved to Fall 2<sup>nd</sup> Year in anticipation of EFD 40-17 requesting CHE 20000 ChE Sophomore Seminar to now be 1 credit hour.

*David S. Corti*

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David Corti, Executive Officer

For Sangtae Kim, Jay and Cynthia Ihlenfeld Head  
School of Chemical Engineering

**Program Requirements:****Fall 1<sup>st</sup> Year**

(4cr) MA 16500 Analytic Geometry & Calculus I  
(4cr) CHM 11500 General Chemistry I  
(4cr) ENGL 10600 English Composition  
(2cr) ENGR 13100 Transforming Ideas to Innovation I  
14 Credits

**Spring 1<sup>st</sup> Year**

(4cr) MA 16600 Analytic Geometry & Calculus II  
(4cr) CHM 11600 General Chemistry II  
(4cr) PHYS 17200 Modern Mechanics OR ENGR 16200  
Honors Creativity and Innovation in Engineering Design II  
(3cr) COM 11400 Fundamentals of Speech  
(2cr) ENGR 13200 Transforming Ideas to Innovation II  
17 Credits

**Fall 2<sup>nd</sup> Year**

(0cr) CHE 20000 ChE Sophomore Seminar  
(4cr) CHE 20500 <sup>CC</sup> ChE Calculations  
(3cr) CHM 26100 Organic Chemistry I  
(1cr) CHM 26300 Organic Chemistry Laboratory I  
(3cr) MA 26100 Multivariate Calculus  
(3cr) PHYS 24100 Electricity & Optics  
(3cr) General Education Elective I: Humanities  
18 Credits

**Spring 2<sup>nd</sup> Year**

(4cr) CHE 21100 <sup>CC</sup> Intro to ChE Thermodynamics  
(3cr) CHE 32000 <sup>CC</sup> Statistical Modeling & Quality  
Enhancement  
(3cr) CHM 26200 Organic Chemistry II  
(1cr) CHM 26400 Organic Chemistry Laboratory II  
(4cr) Math Selective I  
(3cr) General Education Elective II: BSS  
18 Credits

**Fall 3<sup>rd</sup> Year**

(3cr) CHE 30600<sup>CC</sup> Design of Staged Separation  
Processes  
(4cr) CHE 37700 <sup>CC</sup> Momentum Transfer  
(3cr) CHM 37000 Physical Chemistry  
(3cr) Math Selective II  
(3cr) Biology Selective  
16 Credits

**Spring 3<sup>rd</sup> Year**

(0cr) ChE Junior Seminar  
(4cr) CHE 37800 <sup>CC</sup> Heat & Mass Transfer  
(4cr) CHE 34800 <sup>CC</sup> Chemical Reaction Engineering  
(3cr) Technical Selective  
(3cr) Engineering Selective  
(3cr) General Education Selective III: STS  
17 Credits

**Proposed Program Requirements:****Fall 1<sup>st</sup> Year**

Same  
Same  
(3cr) Written Communication  
Same  
13 Credits

**Spring 1<sup>st</sup> Year**

Same  
Same  
Same  
Same  
(3cr) Oral Communication  
Same  
Same

**Fall 2<sup>nd</sup> Year**

(1cr) CHE 20000 ChE Sophomore Seminar  
Same  
Same  
Same  
Same  
Same  
Same  
19 Credits

**Spring 2<sup>nd</sup> Year**

Same  
Same  
Same  
Same  
Same  
Same

**Fall 3<sup>rd</sup> Year**

Same  
Same  
Same  
Same  
Same

**Spring 3<sup>rd</sup> Year**

Same  
Same  
Same  
Same  
Same  
Same

**Fall 4<sup>th</sup> Year**

(1cr) CHE 40000 ChE Senior Seminar  
 (3cr) CHE 45600 Process Dynamics & Control  
 (4cr) CHE 43500 ChE Laboratory  
 (3cr) CHE 42000 Process Safety Management  
 (3cr) General Education Elective IV  
 14 Credits

**Spring 4<sup>th</sup> Year**

(4cr) CHE 45000 Design & Analysis of Processing  
 Systems  
 (3cr) Chemical Engineering Selective  
 (3cr) Engineering Selective  
 (3cr) General Education Elective V  
 (3cr) General Education Elective VI  
 16 Credits

**Note**

2.0 Graduation GPA required for Bachelor of Science degree.

Students must earn a "C" or better in CHE 20500 to enroll in any other CHE course.

Students must earn a "C-" or better in CHE 21100, 30600, 32000, 34800, 37700, 37800 to enroll in upper level CHE courses.

130 semester credits required for Bachelor of Science degree in Chemical Engineering.

Students may take General Education Elective IV, V, and VI for a letter grade or pass/no pass option.

3 credits of CHE 41100, 41200, 49800 or 49900 may be used to complete the Chemical Engineering Selective.

3 credits of CHE 41100, 41200, 49800, or 49900 may be used to complete the Engineering or Technical Selective.

**Degree Requirement**

The student is ultimately responsible for knowing and completing all degree requirements.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

**Critical Course**

The <sup>CC</sup> course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

**Fall 4<sup>th</sup> Year**

Same  
 Same  
 Same  
 Same  
 Same  
 Same

**Spring 4<sup>th</sup> Year**

Same (4cr)  
 Same  
 Same  
 Same  
 Same  
 Same

**Note**

Same

**Degree Requirement**

Same

**Critical Course**

Same