CHEMICAL ENGINEERING

Name: _____

Advisor: _____

Pre-Professional School
CHEMICAL ENGINEERING
130 Semester Hours
2015-2016

Oklahoma State University

College of Engineering, Architecture, and Technology

Required Prerequisites

(May be satisfied by course credit or placement exam)

- MATH 1513 College Algebra
- MATH 1613 Trigonometry
- MATH 1715 PreCalculus
- CHEM 1314 General Chemistry I

Year 1

16 hours

- ENGR 1111 Introduction to Engineering
- ENGR 1412 Engr Computer Programming
- MATH 2144 Calculus I
- ENGL 1113 English Composition I (1)
- HIST 1103 American History
- Gen Ed Elective H / S / I / D (2)

18 hours

- CHEM 1515 General Chemistry II
- Gen Ed Elective H / S / I / D (2)
- MATH 2153 Calculus II
- PHYS 2014 General Physics I
- Gen Ed Elective H / S / I / D (2)

Year 2

16 hours

- CHEM 3053 Organic Chemistry I
- MATH 2233 (4) Differential Equations
- MATH 2163 Calculus III
- ENSC 2213 Thermodynamics
- ENSC 2113 Statics
- CHE 2581 (3) CHE Sophomore Seminar

18 hours

- CHEM 3153 (5) Organic Chemistry II
- CHEM 3112 (5) Organic Chemistry Lab
- CHE 2033 (6) Intro to Che Eng Processes
- PHYS 2114 General Physics II
- ENSC 3233 Fluid Mechanics
- STAT 4033 (7) Engineering Statistics

1. If a grade of "C" is earned in ENGL 1113, then ENGL 1213 is also required before entry Professional School. ENGL 3323 may be substituted if AP Exam credit or a grade of 'A' or 'B' is earned in ENGL1113.
2. 6 hours designated (H) and 6 hours designated (S). One course designated (D) and one course designated (I). Students are encouraged to meet the requirement for (D) and (I) in their selection of (H) or (S) courses.
3. Preference is for this course to be taken the fall preceding entry to Professional School.
4. MATH 2233 or 3263.
5. The combination of BIOC 3653 and 3723 may be substituted for the combination of CHEM 3153 and 3112.
6. Preference is for this course to be taken the spring preceding entry into Professional School.
7. STAT 2013, 2023, 2053, 4013, 4033, 4053, or 4073.

NOTE: This flow chart is for planning purposes only. Students matriculating in AY15 must meet the degree requirements as state on the official degree requirement sheet dated "Academic Year 2015-2016."

Required Before Professional School | General Education Courses | Degree Requirements | Professional School Courses

Admission Requirements for the Chemical Engineering Professional School

To be admitted into CHE Professional School students must meet requirements below:

Complete at least 60 college level semester credit hours (SCH).

12 SCH must be from OSU, 9 of which must be STEM courses (ENGR1111 is not considered STEM).

Completion with a "C" or better in: MATH 2144, 2153, 2163, 2233; PHYS 2014, 2114; CHEM 1515, 3053, and 3153 & 3112 or BIOC 3653 & 3723; ENSC 2213, 3233; CHE 2033, 2581; ENGR 1412; and ENGL 1113 (if a "C" is earned in ENGL 1113, then ENGL 1213 is also required.

A "C" or better in each STEM class that could be used to meet degree requirements.

A GPA of 2.7 or better in all STEM classes that could be used to meet degree requirements.

An GPA of 2.5 or greater in all courses taken at OSU.

A GPA of 2.7 or better in all STEM classes taken at OSU.

8. Fall Only Course.

9. 3000 level or higher. Must meet requirements for professional development, technical knowledge, or life balance. May be fulfilled by upper division coursework as part of pursuit of a minor at OSU. MUST BE APPROVED BY CHE PROFESSIONAL SCHOOL ADVISOR.

10. Students may choose from ANSI 3423, BIOC 3653, 3713 or 4224, BIOL 3023, CHEM 3353, 3553 or 4020, FDSC 3373 or 4373, GEOL 4403, MICR 3033 or similar advanced chemical transformation courses with CHE advisor approval. Cannot use both ANSI 3423 & BIOL 3023 or BIOC 3653 & 3713.

Version 6.1.2015

Professional School

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Year 3

Year 4

Prerequisites	13 hours	17 hours	16 hours	16 hours
Admission to CHE Professional School	CHE 3013 Rate Operations I	CHE 4002 Chemical Eng Lab I	CHE 4112 Chemical Eng Lab II	CHE 4843 Chem Process Instr/Control
	CHE 3473 Chemical Eng Thermodynamics	CHE 3113 Rate Operations II	CHE 4124 Chemical Eng Design I	CHE 4224 Chemical Eng Design II
	CHE 3333 Intro to Transport Phenomena	CHE 3123 Chemical Reaction Eng	CHE 4581 CHE Senior Seminar	Upper Division Elective (3000+) 9
	CHE 3581 CHE Junior Seminar	POLS 1113 American Government	Gen Ed Elective H / S / I / D 2	ENSC 2613 Electrical Science
See Course Catalog for specific course prerequisites	CHEM 3433 Physical Chemistry I 8	ENSC 3313 Materials Science	Upper Division Elective (3000+) 9	Advanced Chemical Sci Elective 10
		ENGL 1213 Freshman Composition II 1	ENSC 2143 Strength of Materials	

Required Before Professional School

General Education Courses

Degree Requirements

Professional School Courses