CHEMICAL ENGINEERING

Name: ______________________
Advisor: _____________________

Pre-Professional School
CHEMICAL ENGINEERING
130 Semester Hours
2016-2017

Oklahoma State University
College of Engineering, Architecture, and Technology

Required Prerequisites
(May be satisfied by course credit or placement exam)

Year 1
16 hours
- ENGR 1111: Introduction to Engineering
- CHEM 1515: General Chemistry II
- Gen Ed Elective

18 hours
- MATH 1715: PreCalculus
- ENGL 1113: English Composition I
- PHYS 2014: General Physics I

Year 2
16 hours
- CHEM 3053: Organic Chemistry I
- MATH 2233: Differential Equations
- ENSC 2113: Statics

18 hours
- CHEM 3153: Organic Chemistry II
- GENR 1412: Engr Computer Programming
- ENSC 2213: Thermodynamics

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. FALL ONLY. 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. SPRING ONLY. Preference is for this course to be taken the spring preceding entry into Professional School.

7. GENR 1412 may be satisfied by course credit or placement exam.

NOTE: This flow chart is for planning purposes only. Students matriculating in AY16 must meet the degree requirements as stated on the official degree requirement sheet dated “Academic Year 2016-2017.”

STAT 2013, 2023, 2053, 4013, 4033, 4053, or 4073.

MATH 2233 or 3263.

*CHEM 3153: Organic Chemistry II
*MATH 2233: Differential Equations
*CHEM 3112: Organic Chemistry Lab
*CHE 2033: Intro to Che Eng Processes
*PHYS 2114: General Physics II
*ENS 3233: Fluid Mechanics
*CHE 2581: CHE Sophomore Seminar
*STAT 4033: Engineering Statistics

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.

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