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)

Year 1
16 hours
ENGR 1111
Introduction to Engineering
CHEM 1515
General Chemistry II
MATH 1513
Trigonometry
MATH 1613
Trigonometry
MATH 2144
Calculus I
MATH 2153
Calculus II
ENGL 1113
English Composition I
PHYS 2014
General Physics I
HIST 1103
American History
Gen Ed Elective
H / S / I / D

Year 2
18 hours
CHEM 3053
Organic Chemistry I
CHEM 3153
Organic Chemistry II
MATH 2233
Differential Equations
CHEM 3112
Organic Chemistry Lab
CHEM 3114
General Chemistry I
CHEM 3153
Organic Chemistry II
MATH 2163
Calculus III
CHE 2033
Intro to Che Eng Processes

Gen Ed Elective
H / S / I / D

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

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.
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, 2233; PHYS 2014, 214; CHEM 1515, 3053, and 3112 or BIOL 353, 3723; ENSC 2213, 3233; CHEM 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, BIOL 3653, 3713 or 4224, BIOL 3023, CHEM 3353, 3553 or 4020, FDSC 3373 or 4373, GEOG 4403, MICR 3033 or similar advanced chemical transformation courses with CHE advisor approval. Cannot use both ANSI 3423 & BIOL 3023 or BIOL 3653 & 3713.

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