CHEMICAL ENGINEERING

Pre-Professional School
CHEMICAL ENGINEERING
2015-2016 Pre–Medical Option
135 Semester Hours

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

Year 1

17 hours
ENGR 1111
Introduction to Engineering

CHEM 1515
General Chemistry II

MATH 1715
PreCalculus

CHEM 1314
General Chemistry I

ENGR 1412
Engr Computer Programming

CHEM 1314
General Chemistry I

MATH 1513
College Algebra

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

ZOOL 1604
Animal Biology

BIOL 1114
General Biology

CHE 2033
Chem Engineering Processes

Year 2

19 hours
CHEM 1515
General Chemistry II

CHEM 3053
Organic Chemistry I

CHEM 3153
Organic Chemistry II

CHEM 3112
Organic Chemistry Lab

CHEM 3115
Organic Chemistry Lab

MATH 2233
Differential Equations

CHEM 2153
Chem Engineering Processes

CHEM 3112
Organic Chemistry Lab

MATH 2163
Calculus III

CHE 2033
Chem Engineering Processes

PHYS 2114
General Physics II

ENSC 2213
Thermodynamics

ENSC 3233
Fluid Mechanics

ENSC 2113
Statics

ENSC 2113
Statics

BIOL 2581
CHE Sophomore Seminar

ENSC 3233
Fluid Mechanics

STAT 4033
Engineering Statistics

ENSC 3233
Fluid Mechanics

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. Student is encouraged to choose courses to meet medical school requirements under consultation with degree advisor and Pre-Health advisor.

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. Student should consult Pre-Health advisor for confirmation of requirements for admission to medical program of choice.

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.”
Admission Requirements for the Chemical Engineering Professional School

To be admitted to 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. CHE 4283, 4293 preferred or with approval from CHE Professional School advisor, from BAE 3113, 3423, 4413, BIOC 3653, 4113, 4224

10. BIOL 3023 OR MICR 3033

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