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

CHEMICAL ENGINEERING

Name: ______________________
Advisor: _____________________

Pre-Professional School
CHEMICAL ENGINEERING
2016-2017 Biomedical/Biochemical Option
134 Semester Hours

Oklahoma State University
College of Engineering, Architecture, and Technology

Required Prerequisites

Che 1314
General
Chemistry I

ENGR 1111
Introduction to
Engineering

ENGR 1412
Engr Computer
Programming

MATH 2144
Calculus I

ENGR 1412
Engr Computer
Programming

MATH 2153
Calculus II

MATH 2163
Calculus III

CHE 2581
CHE Sophomore
Seminar

CHEM 1314
General
Chemistry I

CHEM 1515
General
Chemistry II

CHEM 3053
Organic
Chemistry I

CHEM 3112
Organic
Chemistry II

CHEM 3153
Organic
Chemistry III

CHEM 3153
Organic
Chemistry IV

CHEM 3153
Organic
Chemistry V

ENSC 2113
Statics

ENSC 2113
Statics

HIST 1103
American History

HIST 1103
American History

BIOL 1114
General Biology

BIOL 1114
General Biology

ENSC 2213
Thermodynamics

ENSC 2213
Thermodynamics

PHYS 2014
General Physics I

PHYS 2014
General Physics I

PHYS 2114
General
Physics II

PHYS 2114
General
Physics II

MATH 1613
Trigonometry

MATH 1613
Trigonometry

ENGL 1113
English
Composition I

ENGL 1113
English
Composition I

ENGL 3323
American
Literature

ENGL 3323
American
Literature

CHE 2033
Che Engineering
Processes

CHE 2033
Che Engineering
Processes

MATH 2233
Differential
Equations

MATH 2233
Differential
Equations

CHE 2033
Che Engineering
Processes

CHE 2033
Che Engineering
Processes

MATH 3263
Differential
Equations

MATH 3263
Differential
Equations

H / S / I / D

H / S / I / D

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. Consult the college & departmental requirements. Must include PHIL 3833 or equivalent with CHE Professional School advisor approval.

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 CHEM 3153 AND 3112 may be substituted for the combination of BIOC 3653 AND 3723

6. SPRING ONLY. 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 AY16 must meet the degree requirements as state on the official degree requirement sheet dated “Academic Year 2016-2017.”
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 BIOCL 3653 & 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. BAE 3113, 3423, 4413; BIOCL 3653, 4113, 4224, 5824; BIOL 3023; CHEM 4283, 4293; MICR 2123+2132, 3033; BIOL 1604.

10. From ANSI 3423, BIOCL 3653, 3723, 4113, 4223, CHEM 3153, 3353, 3553, 4020, FDSC 3373, 4373, GEO 4403, MICR 3033 or similar advanced chemical transformation of matter courses approved by CHE Professional School advisor. Cannot use ANSI 3423+BIOCL 3023 or BIOCL 3653+3713.

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