CHEMICAL ENGINEERING
Name: ______________________
Advisor: _____________________

130 Semester Hours

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

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
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<tbody>
<tr>
<td>16 hours</td>
<td>18 hours</td>
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<tr>
<td>18 hours</td>
<td>16 hours</td>
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<tr>
<td>6 hours</td>
<td>18 hours</td>
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**General Education Courses**

- MATH 1513 College Algebra
- MATH 1813 Preparation for Calculus
- CHEM 1314 General Chemistry I
- ENGR 1111 Introduction to Engineering
- ENGR 1412 Engr Computer Programming
- MATH 2144 Calculus I
- MATH 2153 Calculus II
- MATH 2163 Calculus III
- ENGL 1113 English Composition I
- PHYS 2014 General Physics I
- PHYS 2114 General Physics II
- HIST 1103 American History
- gen Ed Elective H / S / I / D
- ENSC 2213 Thermodynamics
- ENSC 2113 Statics
- ENSC 3233 Fluid Mechanics
- CHE 2033 Intro to Che Eng Processes
- Gen Ed Elective H / S / I / D
- CHE 2581 CHE Sophomore Seminar
- STAT 2013, 2023, 2053, 4013, 4033, 4053, or 4073.
- CHEM 2581 CHE Sophomore Seminar
- STAT 2013, 2023, 2053, 4013, 4033, 4053, or 4073.

**Degree Requirements**

- CHEM 1515 General Chemistry II
- CHEM 3053 Organic Chemistry I
- MATH 2233 Differential Equations
- CHEM 3153 Organic Chemistry II
- CHEM 3112 Organic Chemistry Lab
- CHEM 3153 Organic Chemistry II
- CHEM 3112 Organic Chemistry Lab
- MATH 3263

**Upper Level CHE Courses**

1. If a grade of "C" is earned in ENGL 1113, then ENGL 1213 is also required before year 3 in the program. 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 COURSE.
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 COURSE.
7. STAT 2013, 2023, 2053, 4013, 4033, 4053, or 4073.

NOTE: This flow chart is for planning purposes only. Students matriculating in AY17 must meet the degree requirements as state on the official degree requirement sheet dated 'Academic Year 2020-2021.'
Requirements for (CHEN) Chemical Engineering

Students must meet the following requirements to take 3000 level CHE courses:

- 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 all green (1000-2000) courses: 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).

Students must meet the following requirements to take 4000 level courses:

- A "C" or better in all 3000 level courses.

Student must meet the following requirements for graduation:

- A 2.0 GPA average in all CEAT (CHE, CHEM, ENGR, and ENSC) courses.

See Course Catalog for specific course prerequisites

Completion with a grade of "C" or better.