Requirements for Students Matriculating in or before Academic Year 2015-2016

BACHELOR of SCIENCE in CHEMICAL ENGINEERING

MAJOR: Chemical Engineering  
OPTION: Environmental

Minimum Overall Grade Point Average: 2.00  
Total Hours: 133

(Cumulative Graduation/Retention GPA), other GPA requirements see below.

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### General Courses: 33 Hours

Underlined courses must be completed prior to admission to professional school.

<table>
<thead>
<tr>
<th>Area</th>
<th>Hours</th>
<th>To be selected from</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition &amp; Oral Comm.</td>
<td>3</td>
<td>ENGL 1113 or 1313</td>
</tr>
<tr>
<td>American History &amp; Gov.</td>
<td>6</td>
<td>HISt 1103, POLS 1113</td>
</tr>
<tr>
<td>Analytical &amp; Quantitative Thought (A)</td>
<td>13</td>
<td>MATH 2144, 2153, 2163 and (2233 or 3263)</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences (S)</td>
<td>3</td>
<td>Select from ECON 3903, GEOG 3153, POLS 4363, 4593, SOC 4433. Consult the college &amp; departmental requirements.</td>
</tr>
<tr>
<td>Humanities (H)</td>
<td>3</td>
<td>Any course designated (H). Consult the college &amp; departmental requirements.</td>
</tr>
<tr>
<td>Natural Sciences (N)</td>
<td>5</td>
<td>CHEM 1515</td>
</tr>
<tr>
<td>Diversity (D)</td>
<td>--</td>
<td>Any course designated (D). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.</td>
</tr>
<tr>
<td>International Dimension (I)</td>
<td>--</td>
<td>Any course designated (I). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.</td>
</tr>
<tr>
<td>Scientific Investigation (L)</td>
<td>--</td>
<td>Any course designated (L). Normally met by Natural Sciences and/or Basic Science requirements.</td>
</tr>
</tbody>
</table>

### Major Requirements/Professional School

- **Common Professional School: 21 Hours**

<table>
<thead>
<tr>
<th>Area</th>
<th>Hours</th>
<th>To be selected from</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Science</td>
<td>9</td>
<td>ENSC 2143, 2613, 3313</td>
</tr>
<tr>
<td>Advanced Chemical Science</td>
<td>3</td>
<td>From ANSI 3423, BIOL 3653, BIOL 3023, CHEM 3353, 3553, 4020, GEOL 4403, FDSC 3373, MICR 3033 or similar advanced chemical transformation of matter courses approved by school advisor. Cannot use ANSI 3423 &amp; BIOL 3023 or BIOL 3653 &amp; 3713.</td>
</tr>
<tr>
<td>English Composition &amp; Oral Comm.</td>
<td>3</td>
<td>ENGL 1213 or 1413 (3323 may be substituted for 1213, subject to Academic Regulation 3.5)</td>
</tr>
</tbody>
</table>

### Specific Professional School: 38 Hours

Admitted to Professional School of Chemical Engineering.

- **Chemical Engineering** 35
  - CHE 3013, 3113, 3213, 3333, 3473, 3581, 4002, 4112, 4124, 4224, 4343, 4581, 4843

### College/Departmental Requirements: 35 Hours

- **Mathematics** 3
  - STAT 2013, 2023, 2053, 4013, 4033, 4053 or 4073

- **Basic Science** 8
  - PHYS 2014, 2114

- **Engineering** 3
  - ENGR 1111, 1412

- **Engineering Science** 9
  - ENSC 2113, 2213, 3233

- **Chemical Engineering** 4
  - CHE 2033, 2581

- **Chemistry** 8
  - CHEM 3053, 3112, 3153
  - The combination of CHEM 3112 and 3153 may be replaced with the combination of BIOL 3653 and 3723.

### Controlled Electives: 6 Hours

Select 6 credit hours from:

- BIOC 3543, BIOL 3023, BOT 3253, CHE 5873, CIVE 3813, 4833, 5833, 5843, 5943, ECON 5013, GEOL 4453, 4463, IEM 4943, ZOOL 3143, 4303, or other 3000 (or higher) environmental-related course.

### Admission to Professional School (required):

Refer to the OSU Catalog corresponding to your matriculation date for detailed admissions requirements.

**Graduation Requirements:**

1. A minimum GPA of 2.00 is required in all CHE, CHEM, ENGR, and ENSC coursework.
2. The major engineering design experience, capstone course, is satisfied by CHE 4124 and 4224.
3. Additional State/OSU Requirements – At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU. Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
4. Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation. Degrees that follow this plan must be completed by the end of Summer 2021.

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Signature on file in the Office of the Registrar  
Dean

Signature on file in the Office of the Registrar  
Department Head