CHEMICAL ENGINEERING, BSCH

Requirements for Students Matriculating in or before Academic Year 2021-2022. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 130

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL</td>
<td>Critical Analysis and Writing I</td>
<td>1</td>
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Select one of the following:

- ENGL 1213 Composition II
- ENGL 1413 Critical Analysis and Writing II
- ENGL 3323 Technical Writing

American History & Government

Select one of the following:

- HIST 1103 Survey of American History
- HIST 1483 American History to 1865 (H)
- HIST 1493 American History Since 1865 (DH)
- POLS 1113 American Government

Analytical & Quantitative Thought (A)

- MATH 2144 Calculus I (A)
- MATH 2153 Calculus II (A)
- MATH 2163 Calculus III

Humanities (H)

Courses designated (H)

Natural Sciences (N)

Must include one Laboratory Science (L) course

Chemistry

Select one of the following:

- CHEM 3053 Organic Chemistry I
- CHEM 3153 Organic Chemistry II
- BIOC 3653 Survey of Biochemistry
- BIOC 3723 and Biochemistry and Molecular Biology Laboratory

Mathematics

Select one of the following:

- STAT 2013 Elementary Statistics (A)
- STAT 2023 Elementary Statistics for Business and Economics (A)
- STAT 2053 Elementary Statistics for the Social Sciences (A)
- STAT 4013 Statistical Methods I (A)
- STAT 4033 Engineering Statistics
- STAT 4053 Statistical Methods I for the Social Sciences (A)
- STAT 4073 Engineering Statistics with Design of Experiments

Chemical Engineering

- CHE 2033 Introduction to Chemical Process Engineering
- CHE 2581 Chemical Engineering Seminar I
- CHE 3013 Rate Operations I
- CHE 3113 Rate Operations II
- CHE 3123 Chemical Reaction Engineering
- CHE 3333 Introduction to Transport Phenomena
- CHE 3473 Chemical Engineering Thermodynamics
- CHE 3581 Chemical Engineering Seminar II
- CHE 4002 Chemical Engineering Laboratory I
- CHE 4112 Chemical Engineering Laboratory II
- CHE 4124 Chemical Engineering Design I
- CHE 4224 Chemical Engineering Design II
- CHE 4581 Chemical Engineering Seminar III
- CHE 4843 Chemical Process Instrumentation and Control
**Controlled Electives**

*Advanced Chemical Science*

Select 3 hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
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<tbody>
<tr>
<td>ANSI 3423</td>
<td>Animal Genetics</td>
</tr>
<tr>
<td>BIOC 3223</td>
<td>Physical Chemistry for Biologists</td>
</tr>
<tr>
<td>BIOC 3653</td>
<td>Survey of Biochemistry</td>
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<tr>
<td>BIOC 3713</td>
<td>Biochemistry I</td>
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<tr>
<td>BIOC 3723</td>
<td>Biochemistry and Molecular Biology Laboratory</td>
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<tr>
<td>BIOC 4113</td>
<td>Molecular Biology</td>
</tr>
<tr>
<td>BIOL 3023</td>
<td>General Genetics</td>
</tr>
<tr>
<td>CHEM 3153</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 3353</td>
<td>Descriptive Inorganic Chemistry</td>
</tr>
<tr>
<td>CHEM 3553</td>
<td>Physical Chemistry II</td>
</tr>
<tr>
<td>CHEM 4023</td>
<td>Modern Methods of Chemical Analysis</td>
</tr>
<tr>
<td>FDSC 3373</td>
<td>Food Chemistry I</td>
</tr>
<tr>
<td>FDSC 4373</td>
<td>Food Chemistry II</td>
</tr>
<tr>
<td>GEOL 4403</td>
<td>Geochemistry</td>
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<tr>
<td>MICR 3033</td>
<td>Cell and Molecular Biology</td>
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**Restricted Electives**

Select 6 hours of upper-level course credit meeting School objectives

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**Total Hours**

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1. Cannot use both ANSI 3423 Animal Genetics & BIOL 3023 General Genetics or BIOC 3653 Survey of Biochemistry & BIOC 3713 Biochemistry I.

2. Must be 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 the pursuit of a minor at OSU.

**Graduation Requirements**

1. A minimum GPA of 2.00 is required in all CHE coursework.

2. Must receive a "C" or better in the following CHE courses: CHE 2033, CHE 3013, CHE 3113, CHE 3123, CHE 3333, CHE 3473, and CHE 4002.

3. The major engineering design experience, capstone course, is satisfied by CHE 4124 Chemical Engineering Design I and CHE 4224 Chemical Engineering Design II.

**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.

- 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 2027.