<table>
<thead>
<tr>
<th>Course Prefix &amp; Number</th>
<th>Hours</th>
<th>Grade</th>
<th>Term</th>
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<tbody>
<tr>
<td>Advanced Chemistry (9 hrs.)</td>
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<tr>
<td>CHM 2210 - Organic Chemistry I</td>
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<td>CHM 2211 - Organic Chemistry II</td>
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<tr>
<td>CHM/BCH XXXX (Advanced Chemistry Elective)</td>
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<tr>
<td>Engineering Science (7 hrs.)</td>
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<tr>
<td>EGR 3512 - Engineering Mechanics</td>
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<tr>
<td>EEL 3003 - Intro. Electrical Engineering</td>
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<tr>
<td>Chemical &amp; Biomedical Engr Sci &amp; Design (55 hrs.)</td>
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<tr>
<td>ECH 3023 - Mass and Energy Balances I</td>
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<tr>
<td>ECH 3024 - Mass and Energy Balances II</td>
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<tr>
<td>ECH 3101 - Chem-E Thermodynamics</td>
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<tr>
<td>ECH 3266 - Transport Phenomena I</td>
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<tr>
<td>ECH 3274L - Transport Phenomena Lab</td>
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<td>ECH 3418 - Separations Processes</td>
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<td>ECH 3854 - Chem-E Computations</td>
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<td>ECH 4267 - Transport Phenomena II</td>
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<td>ECH 4323 - Process Control</td>
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<tr>
<td>ECH 4323L - Process Control Lab</td>
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<tr>
<td>ECH 4404L - Unit Operations Lab</td>
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<td>ECH 4504 - Kinetics &amp; Reactor Design</td>
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<td>ECH 4604 - Chem-E Process Design I</td>
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<tr>
<td>ECH 4615 - Chem-E Process Design II</td>
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<td>ECH 4937 - Chemical Engineering Statistics</td>
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<tr>
<td>Chem-E Elective I</td>
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<tr>
<td>Chem-E Elective II</td>
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**Notes:**
1. A "C" grade or higher is required in all chemical and biomedical engineering courses that apply to the degree (ECH or BME prefix).
2. Transfer students without an AA degree must meet the Liberal Studies requirements. Transfer students with an AA degree may still need to complete some courses.

**Approved Advanced Chemistry Electives:**
- ECH 4937 - Industrial & Eng. Chem. 3
- BCH 4053 - General Biochemistry I 3
- CHM 2211L - Organic Chemistry II Lab 3
- CHM 3120 - Intro. to Anal. Chem. 3
- CHM 4080.81 - Environmental Chem. I/II 3
- CHM 4410/11 - Physical Chemistry I/II 3

**Approved Chemical Engineering Electives:**
- BME 4007 - Biomedical Engineering 3
- ECH 4743 - Chem-E Bioengineering 3
- ECH 4823 - Polymer Science & Engr 3
- ECH 4824 - Chem-E Materials 3
- ECH 4904 / 4906 - URP / Honors in ChemE 6
- ECH 4937 - Special Topics in Chem-E 3

**AA Degree or General Ed Requirement**

**Writing Course #1 (3)**

**Writing Course #2 (3)**

**Multicultural (x) Reqmt**

**Multicultural (y) Reqmt**

**Scholarship in Practice ECH 4604/4615**

**Upper Division Writing ECH 4440L**

**Oral Comm. Competency ECH 3274L**

**Computer Competency ECH 3854**

**Overall GPA**

**Chem-E all Cs**

**Summer Residency**

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2 One LS-approved History course.
3 Civic Literacy – AMH 2020 or POS 1041 or CLEP or U.S. Cit. Test