## CHEMICAL ENGINEERING, MS

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

**Total Hours:** 30

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CHE 5123</td>
<td>Advanced Chemical Reaction Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHE 5213</td>
<td>Advanced Transport Phenomena</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHE 5743</td>
<td>Chemical Engineering Process Modeling</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHE 5843</td>
<td>Principles of Chemical Engineering Thermodynamics</td>
<td>3</td>
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Two hours from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHE 5303</td>
<td>Introduction to Science and Engineering Research</td>
<td>2</td>
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<tr>
<td>OR</td>
<td>CHE 5202 Introduction to Science and Engineering Research</td>
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Seminar

Three hours from:

<table>
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<tbody>
<tr>
<td>CHE 6010</td>
<td>Chemical Engineering Seminar</td>
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**Hours Subtotal** 17

**Electives**

Graduate-approved elective (CHE or other) courses, selected by the student with the approval of the student's advisory committee.

**Suggested Elective Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHE 5073</td>
<td>Tissue Engineering</td>
</tr>
<tr>
<td>CHE 5133</td>
<td>Catalysis and Photocatalysis</td>
</tr>
<tr>
<td>CHE 5283</td>
<td>Advanced Bioprocess Engineering</td>
</tr>
<tr>
<td>CHE 5293</td>
<td>Advanced Biomedical Engineering</td>
</tr>
<tr>
<td>CHE 5323</td>
<td>Electrochemical Engineering</td>
</tr>
<tr>
<td>CHE 5373</td>
<td>Process Simulation</td>
</tr>
<tr>
<td>CHE 5493</td>
<td>Molecular Modeling and Simulation</td>
</tr>
<tr>
<td>CHE 5523</td>
<td>Colloid Processing</td>
</tr>
<tr>
<td>CHE 5603</td>
<td>Membrane Separations</td>
</tr>
<tr>
<td>CHE 5753</td>
<td>Applied Numerical Computing for Scientists and Engineers</td>
</tr>
<tr>
<td>CHE 5773</td>
<td>Computational Fluid-Particle Dynamics</td>
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</table>

**Hours Subtotal** 7

**Thesis**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHE 5000</td>
<td>Master's Thesis</td>
<td>6</td>
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</table>

**Hours Subtotal** 6

**Total Hours** 30

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**Graduate College Master's Program Requirements**

Learn more about Graduate College 2023-2024 Master's Degree Program Requirements (http://catalog.okstate.edu/graduate-college/). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.