CHEMICAL ENGINEERING, MS

Requirements for Students Matriculating in or before Academic Year 2020-2021. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Total Hours: 30 Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 5123</td>
<td>Advanced Chemical Reaction Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CHE 5213</td>
<td>Advanced Transport Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>CHE 5743</td>
<td>Chemical Engineering Process Modeling</td>
<td>3</td>
</tr>
<tr>
<td>CHE 5843</td>
<td>Principles of Chemical Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHE 5302</td>
<td>Introduction to Science and Engineering Research</td>
<td>2</td>
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</tbody>
</table>

**Hours Subtotal**: 14

**Seminar**

CHE 6010 (Offered for variable credit, 1 credit hour, maximum of 10 credit hours.)

**Hours Subtotal**: 3

**Electives**

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

**Suggested Elective Courses**

- CHE 5073 Tissue Engineering
- CHE 5133 Catalysis and Photocatalysis
- CHE 5283 Advanced Bioprocess Engineering
- CHE 5293 Advanced Biomedical Engineering
- CHE 5323 Electrochemical Engineering
- CHE 5373 Process Simulation
- CHE 5493 Molecular Modeling and Simulation
- CHE 5523 Colloid Processing
- CHE 5603 Membrane Separations
- CHE 5753 Applied Numerical Computing for Scientists and Engineers
- CHE 5773 Computational Fluid-Particle Dynamics

**Hours Subtotal**: 7

**Thesis**

CHE 5000 Master’s Thesis

**Hours Subtotal**: 6

Total Hours: 30

Graduate College Master's Program Requirements

Learn more about Graduate College 2020-2021 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.