CHEMICAL ENGINEERING, MS

Requirements for Students Matriculating in or before Academic Year 2019-2020. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college).

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>
</tr>
</tbody>
</table>

Hours Subtotal: 14

Seminar

CHE 6010 (Offered for variable credit, 1 credit hour, maximum of 10 credit hours.) 3

Hours Subtotal: 3

Electives

Graduate-approved elective (CHE or other) courses, selected by the student with the approval of the student’s advisor. 7

Suggested Elective Courses

Fall Semester

CHE 5293 Advanced Biomedical Engineering
CHE 5523 Colloid Processing
CHE 5273 Basic Physiology and Physiological System Analysis for Engineers

CHE 5373 Process Simulation
CHE 5343 Advanced Environmental Engineering
CHE 5733 Neural Networks

Spring Semester

CHE 5283 Advanced Bioprocess Engineering
CHE 5633 Stagewise Operations
CHE 5263 Advanced Biomaterials Science and Engineering

CHE 5853 Advanced Chemical Process Control
CHE 5223

MAE 6233 Turbulent Fluid Dynamics

BAE 5030 Problems in Biosystems Engineering and Agricultural Technology

Hours Subtotal: 7

Thesis

CHE 5000 Master’s Thesis 6

Hours Subtotal: 6

Total Hours: 30

General Graduate College Requirements

- A minimum Grade-Point-Average of 3.00 is required
- A minimum Grade of "C" is required in all degree applicable courses
- No courses utilizing the Pass-No Pass grading system are permitted

Additional Graduate College Masters Degree Requirements

Plan I (coursework with thesis)

- A minimum of 30 credit hours
  - A minimum of 24 coursework credit hours comprised of:
    - 6 research or creative component credit hours
    - 21 in-residence credit hours (maximum of 9 transfer hours with "B" or better)
    - 21 credit hours at 5000- or 6000-level

Plan II (coursework without thesis)

- A minimum of 32 credit hours
  - A maximum of 3 credit hours of research or creative component
  - A minimum of 23 in-residence credit hours (maximum of 9 transfer credit hours with "B" or better)
  - A minimum of 21 credit hours at the 5000- or 6000-level

- GRAD 5082 or GRAD 5092 may not be used to meet degree requirements