CHEMICAL ENGINEERING, PHD

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: 60 Hours (Beyond the Master’s Degree from Oklahoma State University)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 6703</td>
<td>Research Methods in Chemical Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Seminar

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

Hours Subtotal 6

Electives

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

Hours Subtotal 9

Thesis

CHE 6000  Doctoral Thesis

Hours Subtotal 45

Total Hours 60

With approval of the student’s advisory committee, additional elective courses may be taken, with a corresponding reduction in required credits in CHE 6000; but the number of CHE credits may be no less than 30.

Total Hours: 90 Hours (Beyond the Bachelor’s Degree)

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<th>Title</th>
<th>Hours</th>
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</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 6703</td>
<td>Research Methods in Chemical Engineering</td>
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</tr>
</tbody>
</table>

Seminar

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

Hours Subtotal 6

Electives

Approved elective (CHE or other) courses, selected by the student, with approval of the student’s advisor.

Hours Subtotal 15

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 15

Thesis

CHE 6000  Doctoral Thesis

Hours Subtotal 54

Total Hours 90

With approval of the student’s advisory committee, additional elective courses may be taken, with a corresponding reduction in required credits in CHE 6000; but the number of CHE credits may be no less than 36.
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
• GRAD 5082 or GRAD 5092 may not be used to meet degree requirements

Additional Doctor of Philosophy (PhD.) Requirements

• 90 credits beyond the Bachelor’s degree, 60 credits beyond the Master’s degree are required
• At least seventy-five percent of coursework on the Plan of Study must include 5000 and 6000 level courses
• A minimum of 15 hours at the 6000 level with a grade of SR for the doctoral dissertation must be complete. The maximum number of dissertation hours (6000 with a grade of SR) permissible on a Plan of Study must not exceed three-fourths of the total credit hours in the approved graduate degree program
• Credit for all courses on a graduate Plan of Study must have been awarded within 10 years of completion of all degree requirements
• A minimum of 30 in-residence credit hours are required
• Non-Course requirements:
  • Doctoral Candidacy
  • Dissertation Defense
  • Dissertation Submission/Approval