Requirements for Students Matriculating in or before Academic Year 2022-2023. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Total Hours: 60

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BAE 5501</td>
<td>Seminar</td>
<td>1</td>
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<tr>
<td>BAE 6101</td>
<td>Teaching Practicum in Biosystems Engineering</td>
<td>1</td>
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<tr>
<td>Advanced Math (if advanced math was not completed in Master's program)</td>
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Hours Subtotal 5

Specialization and Dissertation
Combination of Dissertation and Specialization to total 55 hours.

Core Courses (By Specialty Area)

Machine Systems
BAE 5413  Advanced Data Acquisition and Control

Environment and Natural Resources
BAE 6313  Stochastic Methods in Hydrology ¹
BAE 6333  Fluvial Hydraulics ²
BAE 6343  Ground Water Contaminant Transport ³
BAE 6520  Problems in Soil and Water Engineering ⁴

Bioprocessing and Biotechnology
BAE 5213  Renewable Energy Engineering
BAE 5283  Advanced Bioprocess Engineering
BAE 5413  Advanced Data Acquisition and Control
CHE 5123  Advanced Chemical Reaction Engineering
CHE 5373  Process Simulation
CHE 5743  Chemical Engineering Process Modeling
STAT 5303  Experimental Designs

Research and Additional Requirements
BAE 6000  Doctoral Research and Dissertation

Hours Subtotal 55

Total Hours 60

¹ Prerequisites: BAE 4313 or CIVEN 5843 and STAT 4053.
² Prerequisites: ENGSC 3233 or equivalent.
³ Prerequisites: AGRON 5583 or CIVEN 5913.
⁴ Prerequisites: CHEM 1515, BAE 4313 or equivalent.

Graduate College Doctor of Philosophy (PhD) Requirements

Learn more about Graduate College 2022-2023 Doctor of Philosophy (PhD) 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.