BIOSYSTEMS ENGINEERING, PHD

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: 60

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE 5501</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BAE 6101</td>
<td>Teaching Practicum in Biosystems Engineering</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Advanced Math (if advanced math was not completed in Master's program)</td>
<td>3</td>
</tr>
</tbody>
</table>

Hours Subtotal 5

Specialization and Dissertation

Combination of Dissertation and Specialization to total 55 hours. 55

Core Courses (By Specialty Area)

Machine Systems

BAE 5413 Advanced Instrumentation and Control Systems for Biological Applications

Environment and Natural Resources

BAE 6313 Stochastic Methods in Hydrology
BAE 6333 Fluvial Hydraulics
BAE 6343 Ground Water Contaminant Transport
BAE 6520 Problems in Soil and Water Engineering

Bioprocessing and Biotechnology

BAE 5213 Renewable Energy Engineering
BAE 5283 Advanced Bioprocess Engineering
BAE 5413 Advanced Instrumentation and Control Systems for Biological Applications

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 2023-2024 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.