BIOSYSTEMS 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

<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>
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<tr>
<td>Advanced Math (if the student didn’t take any advanced math in the Master’s program)</td>
<td>3</td>
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</tbody>
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Hours Subtotal 5

Specialization and Dissertation

Combination of Dissertation and Specialization to total 55 hours. 55

Core Courses (By Specialty Area)

Biomechanical Systems

BAE 5413 Advanced Instrumentation and Control Systems for Biological Applications

BAE 6540 Prob Farm Power & Mach

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 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

Food Processing

No Required Core Courses

Research and Additional Requirements

BAE 6000 (Offered for variable credit, 1-10 credit hours, maximum of 42 credit hours.)

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.

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