AGRICULTURAL & BIOLOGICAL ENGINEERING, PHD

for the degree of Doctor of Philosophy in Agricultural & Biological Engineering

For additional details and requirements for all degrees, please refer to the program’s Graduate Degree Requirements (https://abe.illinois.edu/graduate/) and the Graduate College Handbook (http://www.grad.illinois.edu/gradhandbook/).

Entering with approved M.S./M.A. degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE 501</td>
<td>Graduate Research I</td>
<td>1</td>
</tr>
<tr>
<td>ABE 594</td>
<td>Graduate Seminar</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>One MATH course beyond differential equations from an approved list</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>(<a href="http://abe.illinois.edu/graduate/handbook/">http://abe.illinois.edu/graduate/handbook/</a>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>At least one course in statistical design and analysis from an</td>
<td>3-5</td>
</tr>
<tr>
<td></td>
<td>approved list (<a href="http://abe.illinois.edu/graduate/handbook/">http://abe.illinois.edu/graduate/handbook/</a>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course in instrumentation and measurement from an approved list</td>
<td>3-5</td>
</tr>
<tr>
<td></td>
<td>(<a href="http://abe.illinois.edu/graduate/handbook/">http://abe.illinois.edu/graduate/handbook/</a>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One 500-level course (taken for at least 3 credit hours) in an area</td>
<td>3-5</td>
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<tr>
<td></td>
<td>of specialization – chosen in consultation with advisor</td>
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<tr>
<td></td>
<td>Elective courses – chosen in consultation with advisor (subject to</td>
<td>10-21</td>
</tr>
<tr>
<td></td>
<td>Other Requirements and Conditions below)</td>
<td></td>
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<tr>
<td></td>
<td>ABE 599 Thesis Research</td>
<td>32</td>
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<tr>
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<td>Total Hours</td>
<td>64</td>
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Other Requirements and Conditions (may overlap)

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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td></td>
<td>A maximum of 4 hours of ABE 597 (or other independent study) may be</td>
<td></td>
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<tr>
<td></td>
<td>applied toward the elective course work requirement.</td>
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<tr>
<td></td>
<td>Teaching experience determined in consultation with advisor with</td>
<td></td>
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<tr>
<td></td>
<td>guidance provided by the department’s Graduate Handbook.</td>
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</tr>
<tr>
<td></td>
<td>The minimum program GPA is 3.0.</td>
<td></td>
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<tr>
<td></td>
<td>Ph.D. exam and dissertation requirements:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Preliminary exam</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Final Exam or dissertation defense</td>
<td></td>
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<tr>
<td></td>
<td>Dissertation deposit</td>
<td></td>
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<tr>
<td></td>
<td>A Masters degree is required for admission to the Ph.D. program.</td>
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</tbody>
</table>

Entering with approved B.S./B.A. degree

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<td>At least one MATH course beyond differential equations from an approved list</td>
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<td></td>
<td>(<a href="http://abe.illinois.edu/graduate/handbook/">http://abe.illinois.edu/graduate/handbook/</a>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>In addition to above 3 courses in math, stats, and instrumentation,</td>
<td>6-10</td>
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<tr>
<td></td>
<td>the student is required to take two more courses from any of the three</td>
<td></td>
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<tr>
<td></td>
<td>areas (math, stats, or instrumentation) above</td>
<td></td>
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<tr>
<td></td>
<td>Two 500-level courses (taken for at least 3 credit hours) in an area</td>
<td>6-10</td>
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<td></td>
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<td>21-34</td>
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<td></td>
<td>Other Requirements and Conditions below)</td>
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<tr>
<td></td>
<td>ABE 599 Thesis Research</td>
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<tr>
<td></td>
<td>Total Hours</td>
<td>96</td>
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</tbody>
</table>

Other Requirements and Conditions (may overlap)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>Two 500-level courses must be formal coursework, not seminar courses,</td>
<td></td>
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<tr>
<td>special topics or independent study.</td>
<td></td>
</tr>
<tr>
<td>A maximum of 6 hours of ABE 597 (or other independent study) may be</td>
<td>applied toward the elective course work requirement.</td>
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<td>Teaching experience determined in consultation with advisor with guidance</td>
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<td>The minimum program GPA is 3.0.</td>
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</table>
Qualifying requirements review in the 2nd year. It is required to complete all courses in math, stats, and instrumentation by the 3rd semester with a 3.25 or higher GPA.

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