BIOLOGICAL SYSTEMS ENGINEERING, PH.D.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

MAJOR REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th></th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Mode of Instruction Definitions

- **Accelerated**: Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.

- **Evening/Weekend**: Courses meet on the UW-Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

- **Face-to-Face**: Courses typically meet during weekdays on the UW-Madison Campus.

- **Hybrid**: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

- **Online**: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirements Detail

- **Minimum Credit Requirement**: 72 credits
- **Minimum Residence Credit Requirement**: 32 credits
- **Minimum Graduate Coursework Requirement**: At least 50% of credits applied toward the graduate degree credit requirement must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide.
- **Overall Graduate GPA Requirement**: 3.00 GPA required.

Other Grade Requirements

Graduate students in BSE must maintain a minimum overall B average (3.0 GPA) during their graduate studies. Seminars, research, or other special problems credits may not be used to offset BC or C grades. No grade below a C will be accepted for fulfilling course work requirements for the degree.

Assessments and Examinations

Doctoral students are required to take a comprehensive preliminary/oral examination after they have cleared their record of all Incomplete and Progress grades (other than research and thesis). Deposit of the doctoral dissertation in the Graduate School is required.

Language Requirements

n/a

Doctoral Minor/Breadth Requirements

Doctoral students must complete a doctoral minor.

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSE 900</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BSE 901</td>
<td>Graduate Research Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BSE 990</td>
<td>Research (Thesis)</td>
<td>1-12</td>
</tr>
<tr>
<td></td>
<td>Teaching Preparatory/Professional Communications Course</td>
<td>3</td>
</tr>
<tr>
<td>E P D 654</td>
<td>Teaching in Science and Engineering</td>
<td></td>
</tr>
<tr>
<td>BSE 799</td>
<td>Practicum in Agricultural Engineering Teaching</td>
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</tr>
</tbody>
</table>

Footnotes

1 At least 36 of the course credits must be taken in physical sciences. At least 9 credits must be from the 600 to 800 level classes from an engineering department and/or comparable technical area. All course credits need to be taken as a letter grade unless course is only offered for credit/no credit. Credit/no credit courses must get prior approval from advisor. Only 1 credit/no credit of the 9 credits can be used to fulfill your credits from 600- to 800-level classes.

2 All graduate students are required to register for one credit of BSE 900 Seminar (only offered fall semesters) within the first three semesters as a graduate student in BSE. However, if you completed your master’s degree in BSE, you do not have to repeat the 1-credit seminar.

3 As a part of the seminar, all students are required to make an oral presentation reporting their research results, typically during the last semester of their graduate program (if you took this course as an M.S. student, you will need to repeat the course as a Ph.D. student to reflect your current research).

4 Graduate students should register for an appropriate number of credits of BSE 990 Research (Thesis Research). If the student’s progress is satisfactory, the student will receive a grade of P (progress) for each semester of BSE 990 Research until the final semester. At that time all of these credits will be given an S (satisfactory) grade by the major professor.

5 The teaching course credits shall not be used to fulfill 9 credits of 600 to 800 level classes from an engineering department and/or comparable technical area. Teaching preparatory courses and
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seminar courses will NOT count toward the required 24 (42) course credits.