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>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<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 typically take enough credits aimed at completing the program in a year or two.

**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

**Requirement Detail**

- Minimum Credit Requirement: 51 credits
- Minimum Residence Credit Requirement: 32 credits
- Overall Minimum Graduation Coursework: 26 credits must be graduate-level coursework. Details can be found in the Graduate School’s Minimum Graduate Coursework (50%) policy (https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/)).
- Overall GPA Requirement: 3.00 GPA required.

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSE 990</td>
<td>Research (Thesis)</td>
<td>16</td>
</tr>
<tr>
<td>Graduate seminars 3</td>
<td>Seminar</td>
<td>2</td>
</tr>
<tr>
<td>BSE 901</td>
<td>Graduate Research Seminar</td>
<td></td>
</tr>
<tr>
<td>BSE 799</td>
<td>Practicum in Agricultural Engineering</td>
<td></td>
</tr>
<tr>
<td>or E P D 654</td>
<td>Teaching in Science and Engineering</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 51

Footnotes

1. All courses for the “BSE Graduate Instruction and Research Committee approved Science and Engineering” requirement should be selected in consultation with your advisor to create a cohesive program of study.
   - These courses must be numbered 300+ and letter graded with A–F. A minimum of 15 credits must hold the 50% Grad Attribute.
   - If a course is offered for credit/no-credit only, prior approval from an advisor may be given for a student to complete no more than 1 credit for credit/no-credit.
   - Up to 7 credits of classes taken as a UW–Madison undergraduate can be included, following the Graduate School policy. A maximum of 18 course credits can be used from an MS degree obtained elsewhere. If applying coursework from a previous MS degree elsewhere, half of the remaining courses taken at UW-Madison (to meet the 30 cr. Science and Engineering requirement) should be courses with the 50% Grad Attribute. For example, if transferring 18 credits from a previous MS degree, at least 6 credits taken at UW-Madison must have the 50% Grad Attribute for this requirement.
   - BSE 900, BSE 901, BSE 990, and BSE 999 may not be used to meet this requirement.

2. A maximum of 6 research credits can be used from a MS degree obtained elsewhere.
BSE 900 is offered in the Fall semester only. It is be taken during the first Fall semester of graduate study. BSE 901 is offered in the Spring semester and can be taken each spring. During a student’s last Spring semester, they give a presentation in BSE 901 to meet the second seminar credit requirement.

Teaching Practicum Experience: Some possible courses are E P D 654 Teaching in Science and Engineering or BSE 799 Practicum in Agricultural Engineering Teaching. Other course options need to be pre-approved by student’s advisor and the Graduate Instruction and Research Committee chair.

BSE 999 credits are limited to 3 credits and are required to be separate from the work the student is doing for BSE 990 credit and shall be taken under the direction of an instructor other than the major advisor.

Not including prerequisite course credits taken to satisfy admission requirements.