BIOLOGICAL SYSTEMS ENGINEERING, M.S.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirements), 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 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

Minimum Residence Credit Requirement

Minimum Graduate Coursework Requirement

At least 50% of credits applied toward the graduate degree credit requirement must be in graduate level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide (https://registrar.wisc.edu/course-guide/https://registrar.wisc.edu/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

All students must complete a graduation checklist and be certified by the GIRC before taking their final oral examination.

Language Requirement

n/a

REQUIRED COURSES

Thesis Track

If your objective is to pursue a Ph.D. degree and/or research-oriented career, you are strongly encouraged to select the thesis option.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Letter-graded UW-Madison course credits</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Thesis research credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Graduate seminar credits</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Biological Systems Engineering course credits</td>
<td>8</td>
</tr>
</tbody>
</table>

1 These tracks are internal to the program and represent different pathways a student can follow to earn this degree. Track names do not appear in the Graduate School admissions application, and they will not appear on the transcript.

2 Not including course credits taken to satisfy admission requirements.

3 At least six credits must be from coursework at the 500-level and above in science/engineering classes; can include up to six credits of science/engineering classes taken at 400-level and above as UW-Madison undergraduate.

4 For the two required graduate seminar credits, students typically take BSE 900 Seminar and BSE 901 Graduate Research Seminar.

Non-Thesis Track

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>Total Credits</td>
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</tr>
<tr>
<td></td>
<td>Letter-graded UW-Madison course credits</td>
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</tr>
<tr>
<td></td>
<td>Independent study credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Graduate seminar credits</td>
<td>2</td>
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4 For the two required graduate seminar credits, students typically take BSE 900 Seminar and BSE 901 Graduate Research Seminar.
Other Requirements
Both thesis and non-thesis option students should select a committee of three faculty members in consultation with their major professors. For thesis option students, at least one of the committee members should be from another department. All students must present their research results at an oral final examination to the committee. All BSE graduate students are required to take BSE 900 Seminar within the first three semesters (offered fall semester only). All BSE graduate students are required and should take BSE 901 Graduate Research Seminar within the last two full semesters (offered spring semester only) of their graduation. Graduate students should register for an appropriate number of credits of BSE 990 Research. If the student's progress is satisfactory, the student will receive a grade of P (progress) for each semester of BSE 990 until the final semester. At that time all of these credits will be given an S (satisfactory) grade by the major professor.