MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>51 credits</td>
</tr>
<tr>
<td>Minimum Residence Credit Requirement</td>
<td>32 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>26 credits must be graduate-level coursework. Details can be found in the Graduate School’s Minimum Graduate Coursework (50%) Requirement Policy: <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a></td>
</tr>
</tbody>
</table>

Assessments and Examinations
As soon as a student has passed all the requirements for the Ph.D. degree (except completion of the dissertation), the student is classified as a Dissertator. Specifically, the student must:

1. Pass the Research Readiness Assessment;
2. Receive Advanced Graduate Standing;
3. Complete at least 32 graduate credits at UW-Madison;
4. Satisfy the ECE Course Requirements;
5. Satisfy the Breadth Requirement;
6. Satisfy the English Competency Requirement;
7. Satisfy the ECE Seminar Requirements;
8. Pass the Preliminary Examination.

Language Requirements
Non-native speakers of English who enroll in the Ph.D. program must take the ESLAT test on arrival at the university and then take any recommended courses based on the exam results. In addition, if a student’s advisor believes that his or her technical writing ability needs improvement, the student may be required to undertake remedial work.

Graduate School Breadth Requirements
All doctoral students are required to complete a doctoral minor or graduate/professional certificate. Students are expected to consult with their advisors concerning appropriate breadth requirements.

Overall Graduate GPA Requirement
3.00 GPA required. This program follows the Graduate School’s policy: https://policy.wisc.edu/library/UW-1203/.
## REQUIRED COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>E C E 610</td>
<td>Seminar in Electrical and Computer Engineering</td>
<td>1</td>
</tr>
<tr>
<td>E C E 611</td>
<td>Introduction to Doctoral Research in Electrical &amp; Computer Engineering</td>
<td>2</td>
</tr>
<tr>
<td>E C E Coursework with the graduate attribute</td>
<td>including at least 9 credits of E C E courses numbered 700 or above</td>
<td>12</td>
</tr>
<tr>
<td>Additional coursework with advisor approval</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

**Total Credits** 51

1

All on-campus E C E graduate students must register for E C E 610 Seminar in Electrical and Computer Engineering during their first semester of graduate studies. Ph.D. degree seeking students must take 1 credit of E C E 610 in the Fall semester of which they are entering the program and 2 credits of E C E 611 Introduction to Doctoral Research in Electrical & Computer Engineering in the following Spring semester. This requirement must be done in the Ph.D. student’s first year.

The purpose of E C E 610 is to prepare students for success in graduate school and expose them to areas within E C E as well as related fields outside of E C E, such as biotechnology, physics, computer science, mathematics, or business. Electrical and Computer Engineering is very interdisciplinary in nature, and so it is important for students to be aware of advanced research and development in areas other than their own.

The purpose of E C E 611 is to emphasize research experiences and methodologies to prepare students to pursue Ph.D. research work.

2

- Research, independent study, coop, or seminar credits (e.g., E C E 610, E C E 611, E C E 699, E C E 702, E C E 790, E C E 890, E C E 990, E C E 999, E C E/N EN/PHYSICS 922) may not be used to satisfy this requirement.
- E C E courses used to satisfy minor requirements may not be used to satisfy this requirement.

3

- E C E courses must be numbered 400 or above.
- Non-E C E courses must be numbered 300 or above.