MATERIALS SCIENCE AND 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

| 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 |
Minimum Graduate Coursework Requirement | 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 Graduate GPA | 3.00 GPA required. |
This program follows the Graduate School’s GPA Requirement policy

REQUISITE COURSES

Courses for Students Starting from a Bachelor’s Degree and Enrolling Directly in the Ph.D. Program

All course requirements are subject to modification or substitution to better serve the research needs of the student. To request a change, submit a letter to the department Graduate Coordinator signed by the student and advisor proposing a change and explaining how the change will better suit the student’s needs, especially as it pertains to their research. Course substitutions and other curriculum variances are decided by the department’s director of graduate studies, subject to appeal to the department’s Graduate Governance Committee and the grievance procedure.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>M S &amp; E 900</td>
<td>Materials Research Seminar</td>
<td>2</td>
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<tr>
<td>I 900</td>
<td>Materials core courses</td>
<td>9</td>
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Electives must be selected from the list of Materials Elective Courses.

1. Before earning the Master’s degree, students should register for M S & E 790 Master’s Research or Thesis.
2. After earning the Master’s degree, they should register for M S & E 890 Pre-Dissertator’s Research.
3. Once they have achieved dissertator status, they should register for M S & E 990 Research and Thesis.

Additionally, the student’s research advisor must sign a form available from the department Graduate Coordinator approving the five courses taken to fulfill the materials core and materials electives requirements.

### Courses for Students Starting from a Master’s Degree and Enrolling Directly in the Ph.D. Program

These requirements cover students who (1) have already earned a master’s degree in M S & E or a related field and (2) do not wish to earn an M S & E master’s from UW.

Students must enroll in the introductory seminar, M S & E 900 Materials Research Seminar, for their first two semesters of enrollment.
Students must satisfy all of the course requirements for the Ph.D. given in the preceding section. However, they may request that courses taken as part of a previous master’s degree at another institution serve to satisfy a portion of the requirements. Students will have one month after matriculation to identify that they wish to follow this track to their Ph.D. and to submit all their course substitution requests. Course substitutions will not be considered later in the student’s Ph.D. studies.

To make such a request, the student should submit a request to the department Graduate Coordinator describing (1) the course from a previous institution; (2) the UW course equivalent; (3) the M S & E course requirement that will be satisfied. The request must include sufficient information to determine if the courses are equivalent. Typically, a syllabus listing the course textbook and lecture topics is sufficient. A course catalog description is typically insufficient. Courses taken while enrolled as an undergraduate student at another institution will not be considered for substitution. This includes courses at the graduate level taken while the student is enrolled as an undergraduate.

If a request is not approved, the student must fulfill the corresponding requirement at the University of Wisconsin–Madison.

If one or more course substitutions are accepted, the student will not earn a master’s degree in Materials Science and Engineering from UW–Madison as part of their Ph.D. studies.