NUCLEAR ENGINEERING AND ENGINEERING PHYSICS, MS

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>
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<td>No</td>
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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**

<table>
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<tr>
<th>Minimum Credit Requirement</th>
<th>30 credits</th>
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<td>Minimum Residence Credit Requirement</td>
<td>16 credits</td>
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**Minimum Graduate Coursework Requirement:** 15 credits must be graduate-level coursework from nuclear engineering, math, physics, chemistry, computer science, or any other engineering department except E P D. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: https://policy.wisc.edu/library/UW-1244/.

**Overall Graduate GPA Requirement:** 3.00 GPA required.

**Graduate GPA Requirement:** Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https://policy.wisc.edu/library/UW-1203/.

**Other Grade Requirements:** Courses in which grades of BC, C, or below are received cannot be counted toward the degree except as follows:

- Credits of C will be allowed provided they are balanced by twice as many credits of A or by four times as many credits of AB,
- Credits of BC will be allowed provided they are balanced by twice as many credits of AB or by an equal number of credits of A.

**Assessments and Examinations:** Students who complete the thesis pathway must write a thesis and defend it orally in front of a three-member committee (at least two must be members of the UW-Madison Graduate Faculty).

**Language Requirements:** No language requirements.

**REQUIRED COURSES**

The following courses, or courses with similar material content, must be taken prior to or during the course of study: N E 427 Nuclear Instrumentation Laboratory; N E 428 Nuclear Reactor Laboratory or N E 526 Laboratory Course in Plasmas; N E 408 Ionizing Radiation or N E / MED PHYS 569 Health Physics and Biological Effects.

Only one course (maximum of 3 credits) of independent study (N E 699 Advanced Independent Study, N E 999 Advanced Independent Study) is allowed (regardless of pathway selected).

**Thesis Pathway**

Maximum of 12 credits for thesis; at least 8 additional credits of N E (http://guide.wisc.edu/courses/n_e/) courses numbered 400 or above; remaining credits (also numbered 400 or above) must be in appropriate technical areas; at least 9 credits must be numbered 500 and above; and up to 3 credits can be seminar credits.

**Non-Thesis Pathway**

At least 15 credits of N E (http://guide.wisc.edu/courses/n_e/) courses numbered 400 or above; remaining 15 credits (also numbered 400 or above) must be in appropriate technical areas; at least 12 credits must be numbered 500 or above; and up to 3 credits can be seminar credits.

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

2 Appropriate technical areas are: Engineering departments (except Engineering and Professional Development), Physics, Math, Statistics, Computer Science, Medical Physics, and Chemistry. Other courses may be deemed appropriate by a student’s faculty advisor.