NUCLEAR ENGINEERING MINOR

Mechanical Engineering (ENME)
2181 Engineering Classroom Building, 301-405-2410
www.enme.umd.edu/undergrad/minors/nuclear-eng-minor

Contact Dr. G.A. Pertmer (pertmer@umd.edu) for further information.

The minor in Nuclear Engineering provides the engineering student with the understanding of nuclear engineering and its application to many different fields, such as power generation, reactor operation, and industrial uses. Students in the minor will learn the fundamentals of nuclear reactor engineering, radiation interactions and measurement, power plant design concepts, and reactor safety. The minor is open to any student in the Clark School of Engineering.

Requirements
To successfully complete the minor in nuclear engineering, a student must complete a total of 15 credits (5 3-credit courses). All courses must be completed with a grade of "C-" or higher. A maximum of two of the required five courses can be used to satisfy requirements of the student’s major (with approval of the major department).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENME430</td>
<td>Fundamentals of Nuclear Reactor Engineering</td>
<td>3</td>
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<tr>
<td>ENME431</td>
<td>Nuclear Reactor Systems and Safety</td>
<td>3</td>
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<tr>
<td>ENME432</td>
<td>Reactor and Radiation Measurements Laboratory</td>
<td>3</td>
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<tr>
<td>ENME472</td>
<td>Integrated Product and Process Development</td>
<td>3</td>
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Select a fifth course. Some possible choices include:

1. ENME488  Special Problems
2. ENME489  Special Topics in Mechanical Engineering
3. ENRE447  Fundamentals of Reliability Engineering
4. ENMA422  Radiation Effects of Materials
5. ENEE474  Power Systems

Total Credits 15

1. The fifth course for the minor will be selected, with the help of the student’s minor advisor, based on student interest.
2. Student would select an appropriate course from a number of special topics courses taught each semester in the Mechanical Engineering Department.

Students who fulfill minor requirements will receive a notation on their official transcript.