NUCLEAR ENGINEERING
UNDERGRADUATE MAJOR
(BS, HBS)

The Bachelor of Science and Honors Bachelor of Science degrees in Nuclear Engineering are accredited by the Engineering Accreditation Commission of ABET, http://www.ABET.org (http://www.abet.org/).

The goals of the nuclear engineering curriculum are to prepare students for careers related to the many beneficial uses of nuclear technology and energy. Nuclear engineers apply engineering principles to the research, design, and operation of a wide variety of nuclear technology applications including power generation, medicine, and radioactive waste management.

Program Educational Objectives – Nuclear Engineering
The OSU Nuclear Engineering Program effectively prepares students for careers and professional accomplishments in the nuclear engineering industry through its established Program Educational Objectives.

The Program Educational Objectives for the Nuclear Engineering Program may be found at the following link (https://ne.oregonstate.edu/ accreditation/).

Major Code: 327

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.
- Apply knowledge of atomic and nuclear physics to nuclear and radiological systems and processes.
- Apply knowledge of transport and interaction of radiation with matter to nuclear and radiation processes.
- Measure nuclear and radiation processes.
- Work professionally in one or more of the nuclear or radiological fields of specialization.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CH 201</td>
<td>CHEMISTRY FOR ENGINEERING MAJORS</td>
</tr>
<tr>
<td>CH 202</td>
<td>CHEMISTRY FOR ENGINEERING MAJORS</td>
</tr>
<tr>
<td>COMM 111</td>
<td>*PUBLIC SPEAKING</td>
</tr>
<tr>
<td>or COMM 114</td>
<td>or *ARGUMENT AND CRITICAL DISCOURSE</td>
</tr>
<tr>
<td>HHS 231</td>
<td>*LIFETIME FITNESS FOR HEALTH</td>
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<tr>
<td>HHS 241</td>
<td>*LIFETIME FITNESS (or any PAC course)</td>
</tr>
<tr>
<td>MTH 251</td>
<td>*DIFFERENTIAL CALCULUS</td>
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Nuclear Engineering Undergraduate Major (BS, HBS)

1. Must be selected to satisfy baccalaureate core requirements
2. Approved technical electives from departmental list

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