### NUCLEAR ENGINEERING: RADIATION SCIENCES

#### FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
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</tr>
<tr>
<td>CHEM 109(^1)</td>
<td>5</td>
<td>E M A 201(^3)</td>
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<tr>
<td>MATH 221</td>
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<tr>
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<td>M E 231</td>
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<tr>
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<td>M S &amp; E 350</td>
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<td></td>
<td>N E 231</td>
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<table>
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<tr>
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<tr>
<td>MATH 234</td>
<td>4</td>
<td>MATH 320</td>
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</tr>
<tr>
<td>PHYSICS 202</td>
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<td>PHYSICS 241 or 205</td>
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<td>E M A 202(^2)</td>
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<td>M E 361</td>
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<tr>
<td>E P 271 or COMP SCI 310</td>
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<td>M E A 303(^4)</td>
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<tr>
<td>E P D 275 or COM ARTS 105</td>
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<td>N E 424</td>
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<tr>
<td>N E 305</td>
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<td>N E 405</td>
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<tr>
<td>MATH 321</td>
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<td>N E 408</td>
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<td>N E 412</td>
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<td>N E 571</td>
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**Total Credits 129**

1. It is recommended that students take CHEM 109 Advanced General Chemistry for 5 credits. However, depending on their high school chemistry experience, students may substitute this with CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits. Three credits of CHEM 103/CHEM 104 General Chemistry II may be counted as Technical Electives credits.

2. Students who were not able to take N E 231 Introduction to Nuclear Engineering as freshmen may, with the approval of their advisor, substitute a course offered in the College of Engineering or in the Departments of Chemistry, Computer Science, Mathematics, and Physics.

3. Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.

4. After completing E M A 201 Statics, students may complete E M A 202 Dynamics and E M A 303 Mechanics of Materials in either order or concurrently.

5. STAT 311 Introduction to Theory and Methods of Mathematical Statistics I or STAT/M E 424 Statistical Experimental Design are acceptable substitutes.

6. PHYSICS 623 Electronic Aids to Measurement is recommended for students in the Radiation Sciences focus area.