

| <b>CORE CURRICULUM</b>  | Minimum Hours Required | <b>OPTION 3: RADIATION PHYSICS</b>  | Minimum Hours Required |
|---|------------------------|---|------------------------|
| <p>Core courses must be chosen from approved lists.<br/><a href="http://bit.ly/1d6oP6I">bit.ly/1d6oP6I</a></p> <p><b>First Year Signature Course</b> 3</p> <p><b>English Composition</b> 3</p> <p><b>Humanities</b> 3</p> <p><b>American &amp; Texas Government</b> 6</p> <p><b>American History</b> 6</p> <p><b>Social &amp; Behavioral Science</b> 3</p> <p><b>Mathematics</b> (Fulfilled by course in major) 0</p> <p><b>Science &amp; Technology-I</b> (Fulfilled by courses in major) 0</p> <p><b>Science &amp; Technology-II</b> (Fulfilled by courses in major) 0</p> <p><b>Visual &amp; Performing Arts</b> 3</p>   |                        | <p>Designed to provide the necessary foundation for the student who plans a career or further study in nuclear engineering, radiation engineering, or health physics.</p> <p><b>Additional Science:</b> 6<br/>6 hours in BIO, GEO, or AST<br/><i>Note: courses that cannot count toward major requirements in department that offers it cannot be applied.</i></p> <p><b>Upper-division mathematics:</b> 14<br/>M 427J or 427K<br/>M 427L<br/>6 additional hours of upper-division Mathematics<br/><i>M 340L, 361, and 362K are recommended</i></p> <p><b>Upper-division physics:</b> 24<br/>PHY 355 Modern Physics &amp; Thermodynamics<br/>PHY 353L Modern Physics Laboratory<br/>PHY 336K Classical Dynamics<br/>PHY 352K Classical Electrodynamics I<br/>PHY 373 Quantum Physics I: Foundations<br/>PHY 369 Thermodynamics &amp; Statistical Mechanics<br/>PHY 362L Quantum Physics III: Particles &amp; Nuclei<br/>3 additional hours of upper-division PHY</p> <p><b>Upper-division mechanical engineering:</b> 18<br/>ME 337C, 337F, 337G, 361E, 361F, and 336P<br/><i>Potential substitutions may be discussed with faculty advisor</i></p> |                        |
| <p style="border-top: 2px solid black; border-bottom: 2px solid black;"><b>SKILLS &amp; EXPERIENCE FLAGS</b></p> <p>Flags attached to courses are displayed in the online Course Schedule.</p> <p><b>Two Writing Flags:</b> <input type="checkbox"/> <input type="checkbox"/></p> <p>1. Core Writing Flag (cannot also fulfill another core curriculum requirement)</p> <p>2. Additional Writing Flag<br/><i>Note: One of the two writing flags must be upper-division.</i></p> <p><b>One Quantitative Reasoning Flag</b> <input type="checkbox"/></p> <p><b>One Global Cultures Flag</b> <input type="checkbox"/></p> <p><b>One Cultural Diversity in the U.S. Flag</b> <input type="checkbox"/></p> <p><b>One Ethics and Leadership Flag</b> <input type="checkbox"/></p> <p><b>One Independent Inquiry Flag</b> <input type="checkbox"/></p> |                        | <p style="border-top: 2px solid black; border-bottom: 2px solid black;"><b>ELECTIVES</b></p> <p><b>Enough elective hours to reach 126 total</b> VARY<br/><i>(The number of elective hours needed may vary depending on course selections.)</i></p>  |                        |
| <p style="border-top: 2px solid black; border-bottom: 2px solid black;"><b>FOREIGN LANGUAGE</b></p> <p><b>1 of the following:</b> 6–12</p> <p>a. Beginning level proficiency in a foreign language</p> <p>b. 1 course in a foreign language &amp; 1 three-hour course in the culture of the same language area</p> <p>c. 2 three-hour courses from the same foreign culture area</p> <p><i>Foreign culture courses selected from approved lists maintained by the college. <a href="http://bit.ly/19Ao6pc">Bit.ly/19Ao6pc</a></i></p>   |                        | <p style="border-top: 2px solid black; border-bottom: 2px solid black;"><b>ADDITIONAL GRADUATION REQUIREMENTS</b></p> <p><input type="checkbox"/> Minimum 21 upper-division hours in residence, including 12 in Physics</p> <p><input type="checkbox"/> Minimum 60 hours in residence overall</p> <p><input type="checkbox"/> Minimum 36 upper-division hours</p> <p><input type="checkbox"/> 126 hours total overall</p> <p><input type="checkbox"/> Minimum grade of C- &amp; minimum 2.0 GPA in all Mathematics &amp; Natural Sciences courses</p> <p><input type="checkbox"/> Minimum UT-Austin Grade Point Average of 2.0</p> <p><input type="checkbox"/> Must apply to graduate during final semester</p> <p><input type="checkbox"/> 2020–22 Catalog expires August 2028</p>   |                        |
| <p style="border-top: 2px solid black; border-bottom: 2px solid black;"><b>INTRODUCTORY MATHEMATICS &amp; SCIENCE</b></p> <p><b>M 408C &amp; 408D or 408N, 408S, &amp; 408M</b> 8–12</p> <p><b>PHY 301 &amp; 101L*, 316 &amp; 116L*, and 315 &amp; 115L</b> 12<br/><i>*PHY 303K &amp; 103M and 303L &amp; 103N, substitute for PHY 301 &amp; 101L and 316 &amp; 116L. However, they are not preferred preparation for PHY 315 &amp; 115L.</i></p> <p><b>CH 301, 301C, or 301H</b> 3</p> <p><b>CH 302, 302C, or 302H</b> 3</p> <p><i>Note: Introductory science is substantially different for Option 6</i></p>  |                        |   |                        |