

CORE CURRICULUM	Minimum Hours Required	OPTION 3: RADIATION PHYSICS	Minimum Hours Required
Core courses must be chosen from approved lists. <i>bit.ly/1d6oP6l</i>		Designed to provide the necessary foundation for the student who plans a career or further study in nuclear engineering, radiation engineering, or health physics.	
First Year Signature Course	3	Additional Science: 6 hours in BIO, GEO, or AST <i>Note: courses that cannot count toward major requirements in department that offers it cannot be applied.</i>	6
English Composition	3		
Humanities	3		
American & Texas Government	6		
American History	6		
Social & Behavioral Science	3		
Mathematics (Fulfilled by course in major)	0	Upper-division mathematics: M 427J or 427K M 427L 6 additional hours of upper-division Mathematics <i>M 340L, 361, and 362K are recommended</i>	14
Science & Technology-I (Fulfilled by courses in major)	0		
Science & Technology-II (Fulfilled by courses in major)	0	Upper-division physics: PHY 355 Modern Physics & Thermodynamics PHY 353L Modern Physics Laboratory PHY 336K Classical Dynamics PHY 352K Classical Electrodynamics I PHY 373 Quantum Physics I: Foundations PHY 369 Thermodynamics & Statistical Mechanics PHY 362L Quantum Physics III: Particles & Nuclei 3 additional hours of upper-division PHY	24
Visual & Performing Arts	3		
SKILLS & EXPERIENCE FLAGS <i>Flags attached to courses are displayed in the online Course Schedule.</i>			
Two Writing Flags:	<input type="checkbox"/> <input type="checkbox"/>	Upper-division mechanical engineering: ME 337C, 337F, 337G, 361E, 361F, and 336P <i>Potential substitutions may be discussed with faculty advisor</i>	18
1. Core Writing Flag (cannot also fulfill another core curriculum requirement)			
2. Additional Writing Flag <i>Note: One of the two writing flags must be upper-division.</i>			
One Quantitative Reasoning Flag	<input type="checkbox"/>		
One Global Cultures Flag	<input type="checkbox"/>		
One Cultural Diversity in the U.S. Flag	<input type="checkbox"/>		
One Ethics and Leadership Flag	<input type="checkbox"/>	ELECTIVES Enough elective hours to reach 126 total <i>(The number of elective hours needed may vary depending on course selections.)</i>	VARY
One Independent Inquiry Flag	<input type="checkbox"/>		
FOREIGN LANGUAGE		ADDITIONAL GRADUATION REQUIREMENTS <input type="checkbox"/> Minimum 21 upper-division hours in residence, including 12 in Physics <input type="checkbox"/> Minimum 60 hours in residence overall <input type="checkbox"/> Minimum 36 upper-division hours <input type="checkbox"/> 126 hours total overall <input type="checkbox"/> Minimum grade of C- & minimum 2.0 GPA in all Mathematics & Natural Sciences courses <input type="checkbox"/> Minimum UT-Austin Grade Point Average of 2.0 <input type="checkbox"/> Must apply to graduate during final semester <input type="checkbox"/> 2022–24 Catalog expires August 2030	
1 of the following:	6–12		
a. Beginning level proficiency in a foreign language b. 1 course in a foreign language & 1 three-hour course in the culture of the same language area c. 2 three-hour courses from the same foreign culture area <i>Foreign culture courses selected from approved lists maintained by the college. Bit.ly/19Ao6pc</i>			
INTRODUCTORY MATHEMATICS & SCIENCE			
M 408C & 408D or 408N, 408S, & 408M	8–12		
PHY 301 & 101L*, 316 & 116L*, and 315 & 115L <i>*PHY 303K & 105M and 303L & 105N, substitute for PHY 301 & 101L and 316 & 116L. However, they are not preferred preparation for PHY 315 & 115L.</i>	12		
CH 301 or 301C	3		
CH 302 or 302C	3		
<i>Note: Introductory science is substantially different for Option 6</i>			