

CORE CURRICULUM	Minimum Hours Required	OPTION 2: COMPUTATION	Minimum Hours Required
Core courses must be chosen from approved lists. <i>bit.ly/1d6oP6l</i>		Designed to provide the necessary foundation and hands-on skill in computation for the student who plans a career or further study in computational physics or computer science. Students who complete this option may simultaneously fulfill some of the requirements of the Scientific Computation and Data Sciences Certificate.	
First Year Signature Course	3		
English Composition	3		
Humanities	3		
American & Texas Government	6		
American History	6		
Social & Behavioral Science	3		
Mathematics (Fulfilled by course in major)	0	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
Science & Technology-I (Fulfilled by courses in major)	0	Upper-division mathematics and statistics and data sciences:	14
Science & Technology-II (Fulfilled by courses in major)	0	M 427J or 427K M 427L 6 additional hours of upper-division Mathematics or SDS <i>SDS 329C and M 362K are recommended</i>	
Visual & Performing Arts	3	Upper-division physics:	24
SKILLS & EXPERIENCE FLAGS <i>Flags attached to courses are displayed in the online Course Schedule.</i>		PHY 355 Modern Physics & Thermodynamics PHY 338K Electronic Techniques PHY 353L Modern Physics Laboratory PHY 336K Classical Dynamics PHY 352K Classical Electrodynamics I PHY 329 Introduction to Computational Physics PHY 373 Quantum Physics I: Foundations PHY 369 Thermodynamics & Statistical Mechanics (373 is prerequisite or co-requisite)	
Two Writing Flags:	<input type="checkbox"/> <input type="checkbox"/>	1 scientific computation specialization, 12 hours total:	12
1. Core Writing Flag (cannot also fulfill another core curriculum requirement)		A. <i>1st choice</i> CS 303E, and CS 313E or SDS 322 2 courses from 2 areas listed below: Numerical methods: M 348; SDS 335; CS 323E, 323H, 367; CHE 348 Statistical Methods: M 358K, 378K; BME 335 Other computing topics: M 346, 362M, 368K, 372K, 376C; SDS 329D, 374C, 374D, 374E; CS 324E, 327E, 329E, 377; ME 367S	
2. Additional Writing Flag <i>Note: One of the two writing flags must be upper-division.</i>		B. <i>2nd choice</i> 12 hours from: EE 306, 312, 316, 319K, and 422C	
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"/>		
One Independent Inquiry Flag	<input type="checkbox"/>		
FOREIGN LANGUAGE		ELECTIVES Enough elective hours to reach 126 total	VARY
1 of the following:	6–12	(The number of elective hours needed may vary depending on course selections.)	
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		ADDITIONAL GRADUATION REQUIREMENTS	
M 408C & 408D or 408N, 408S, & 408M	8–12	<input type="checkbox"/> Minimum 21 upper-division hours in residence, including 12 in Physics	
PHY 301 & 101L*, 316 & 116L*, and 315 & 115L	12	<input type="checkbox"/> Minimum 60 hours in residence overall	
<i>*PHY 303K & 103M and 303L & 103N, substitute for PHY 301 & 101L and 316 & 116L. However, they are not preferred preparation for PHY 315 & 115L.</i>		<input type="checkbox"/> Minimum 36 upper-division hours	
CH 301, 301C, or 301H	3	<input type="checkbox"/> 126 hours total overall	
CH 302, 302C, or 302H	3	<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"/> 2020–22 Catalog expires August 2028	
<i>Note: Introductory science is substantially different for Option 6</i>			