

CORE CURRICULUM	Minimum Hours Required	OPTION 2: COMPUTATION	Minimum Hours Required
Core courses must be chosen from approved lists.	Required		Requireu
First Year Signature Course	3	Designed to provide the necessary foundation and hands-on skill in computation for the student who plans a career or further study in	
English Composition	3	computational physics or computer science. Students who complete this option may	
Humanities	3	simultaneously fulfill some of the requirements	
American & Texas Government	6	Certificate.	
American History	6	Additional Science:	6
Social & Behavioral Science	3	6 hours in BIO, GEO, or AST	
Mathematics (Fulfilled by course in major)	0	Note: courses that cannot count toward major requirements in department that offers it cannot be applied.	
Science & Technology-I (Fulfilled by courses in major)	0	Inner-division mathematics and statistics	
Science & Technology-II (Fulfilled by courses in major)	0	and data sciences:	14
Visual & Performing Arts	3	M 427J or 427K M 427L 6 additional hours of upper-division Mathematics or SDS	
SKILLS & EXPERIENCE FLAGS Flags attached to courses are displayed in the online		SDS 329C and M 362K are recommended	
Course Schedule.		Upper-division physics:	24
Two Writing Flags:		PHY 355 Modern Physics & Thermodynamics PHY 338K Electronic Techniques	
1. Core Writing Flag (cannot also fulfill another core curriculum requirement)		PHY 353L Modern Physics Laboratory PHY 336K Classical Dynamics PHY 352K Classical Electrodynamics I	
2. Additional Writing Flag Note: One of the two writing flags must be upper-division.		PHY 329 Introduction to Computational Physics	
One Quantitative Reasoning Flag		PHY 369 Thermodynamics & Statistical	
One Global Cultures Flag		Mechanics (373 is prerequisite or co-requisite)	
One Cultural Diversity in the U.S. Flag		1 scientific computation specialization,	10
One Ethics and Leadership Flag		A. 1st choice	12
One Independent Inquiry Flag		CS 303E, and CS 313E or SDS 322	
		Numerical methods: M 348; SDS 335; CS	
FOREIGN LANGUAGE		Statistical Methods: M 358K, 378K;	
1 of the following:	6–12	BME 335 Other computing topics: M 346, 362M	
a. Beginning level proficiency in a foreign language		368K, 372K, 376C; CS 324E, 327E, 329E,	
b. 1 course in a foreign language & 1 three-hour course in the culture of the same language area		B. 2nd choice	
c. 2 three-hour courses from the same foreign culture area		12 hours from: EE 306, 312, 316, 319K, and 422C	
Foreign culture courses selected from approved lists maintained by the college Bit ly/19406pc			
mamamou by the conege. Dr. 19 19 10000		ELECTIVES Enough elective hours to reach 126 total	VARY
INTRODUCTORY MATHEMATICS & SCIENCE		(The number of elective hours needed may vary depending on course selections.)	
M 408C & 408D or 408N. 408S. & 408M	8–12		
	12	ADDITIONAL GRADUATION	
* PHY 303K & 105M and 303L & 105N, substitute for PHY 301 & 101L and 316 & 116L. However, they are not preferred	12	 □ Minimum 21 upper-division hours in residence, including 12 in Physics □ Minimum 60 hours in residence overall 	
preparation for PHY 315 & 115L.		☐ Minimum 36 upper-division hours ☐ 126 hours total overall	
CH 301 or 301C	3	Minimum grade of C - & minimum 2.0 GPA in all Mathematics & Natural Sciences courses	
CH 302 or 302C	3	Minimum UT-Austin Grade Point Average of 2.0	
Note: Introductory science is substantially different for Option 6		 Initial serification 2024-26 Catalog expires August 2032 	