The University of Texas at Austin
College of Natural Sciences

Bachelor of Science in Physics (BS) 2016–18 Checklist

CORE CURRICULUM

Core courses must be chosen from approved lists. *bit.ly/1d6oP6l*

	Minimum Hours Required
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**
Science & Technology-I *(Fulfilled by courses in major)*	**0**
Science & Technology-II *(Fulfilled by courses in major)*	**0**
Visual & Performing Arts	**3**

SKILLS & EXPERIENCE FLAGS

Flags attached to courses are displayed in the online Course Schedule.

Two Writing Flags:	☐ ☐
1. Core Writing Flag *(cannot also fulfill another core curriculum requirement)* 2. Additional Writing Flag *Note: One of the two writing flags must be upper-division.*	
One Quantitative Reasoning Flag	☐
One Global Cultures Flag	☐
One Cultural Diversity in the U.S. Flag	☐
One Ethics and Leadership Flag	☐
One Independent Inquiry Flag	☐

FOREIGN LANGUAGE

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 *Foreign culture courses selected from approved lists maintained by the college. Bit.ly/19Ao6pc*	

INTRODUCTORY MATHEMATICS & SCIENCE

M 408C & 408D or 408N, 408S, & 408M	**8–12**
PHY 301 & 101L*, 316 & 116L*, and 315 & 115L	**12**
** PHY 303K & 103M and 303L & 103N, substitute for PHY 301 & 101L and 316 & 116L. However, they are not preferred preparation for PHY 315 & 115L.*	
CH 301 or 301H	**3**
CH 302 or 302H	**3**
Note: Introductory science is substantially different for Option 6	

OPTION 3: RADIATION PHYSICS

Designed to provide the necessary foundation for the student who plans a career or further study in nuclear engineering, radiation engineering, or health physics.

	Minimum Hours Required
Additional Science:	**6**
6 hours in BIO, GEO, or AST *Note: courses that cannot count toward major requirements in department that offers it cannot be applied.*	
Upper-division mathematics:	**14**
M 427J or 427K M 427L 6 additional hours of upper-division Mathematics *M 340L, 361, and 362K are recommended*	
Upper-division physics:	**24**
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	
Upper-division mechanical engineering:	**18**
ME 337C, 337F, 337G, 361E, 361F, and 336P *Potential substitutions may be discussed with faculty advisor*	

ELECTIVES

Enough elective hours to reach 126 total	**VARY**
(The number of elective hours needed may vary depending on course selections.)	

ADDITIONAL GRADUATION REQUIREMENTS

- ☐ Minimum 21 upper-division hours in residence, including 12 in Physics
- ☐ Minimum 60 hours in residence overall
- ☐ Minimum 36 upper-division hours
- ☐ 126 hours total overall
- ☐ Minimum grade of C- & minimum 2.0 GPA in all Mathematics & Natural Sciences courses
- ☐ Minimum UT-Austin Grade Point Average of 2.0
- ☐ Must apply to graduate during final semester
- ☐ 2016–18 Catalog expires August 2024