### CORE CURRICULUM

Core courses must be chosen from approved lists.

- **First Year Signature Course**
  - 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:

- 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.

- **Additional Science:**
  - 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 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

  - Potential substitutions may be discussed with faculty advisor

### ELECTIVES

- Enough elective hours to reach 126 total

(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

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

Minimum Hours Required

- 126 hours overall
- 21 upper-division hours in residence, including 12 in Physics