### CORE CURRICULUM
Core courses must be chosen from approved lists. 
[bit.ly/1d6oP6l](bit.ly/1d6oP6l)

| 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:**
  - Core Writing Flag (cannot also fulfill another core curriculum requirement)
  - 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](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 & 105M and 303L & 105N, substitute for PHY 301 & 101L and 316 & 116L. However, they are not preferred preparation for PHY 315 & 115L.

| CH 301 or 301C | 3 |
| CH 302 or 302C | 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
  - 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.) VARY

### 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
- □ 2022–24 Catalog expires August 2030