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

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Hours Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Signature Course</td>
<td>3</td>
</tr>
<tr>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>American &amp; Texas Government</td>
<td>6</td>
</tr>
<tr>
<td>American History</td>
<td>6</td>
</tr>
<tr>
<td>Social &amp; Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics <em>(Fulfilled by course in major)</em></td>
<td>0</td>
</tr>
<tr>
<td>Science &amp; Technology-I <em>(Fulfilled by courses in major)</em></td>
<td>0</td>
</tr>
<tr>
<td>Science &amp; Technology-II <em>(Fulfilled by courses in major)</em></td>
<td>0</td>
</tr>
<tr>
<td>Visual &amp; Performing Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

## 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 language courses selected from approved lists maintained by the college. [bit.ly/19Ao6pc](bit.ly/19Ao6pc)

**Minimum Hours Required:** 6–12

## INTRODUCTORY MATHEMATICS & SCIENCE

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Hours Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 408C &amp; 408D or 408N, 408S, &amp; 408M</td>
<td>8–12</td>
</tr>
<tr>
<td>PHY 301 &amp; 101L*, 316 &amp; 116L*, and 315 &amp; 115L</td>
<td>12</td>
</tr>
<tr>
<td>CH 301 or 301H</td>
<td>3</td>
</tr>
<tr>
<td>CH 302 or 302H</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Introductory science is substantially different for Option 6

## OPTION 4: SPACE SCIENCES
Designed to provide the necessary foundation for the student who plans a career or further study in space sciences.

**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 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
  - PHY 362K Quantum Physics II: Atoms & Molecules

1 of the following:
- 15 upper-division ASE hours
- or 12 upper-division ASE & 3 additional upper-division PHY hours

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

**Minimum Hours Required:** 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
- □ 2016–18 Catalog expires August 2024

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

Minimum Hours Required: