### CORE CURRICULUM
Core courses must be chosen from approved lists.

<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 (Fulfilled by course in major)</td>
<td>0</td>
</tr>
<tr>
<td>Science &amp; Technology-I (Fulfilled by courses in major)</td>
<td>0</td>
</tr>
<tr>
<td>Science &amp; Technology-II (Fulfilled by courses in major)</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: 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 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.

Introductory science in Option 2 is different than in this option.

### OPTION 1: ASTRONOMY

**Additional science:** 6

6 hours in BIO, CH, CS, and/or GEO

Note: A course that cannot count toward major requirements in department that offers it cannot be applied. Elements of Computing coursework is an exception to this rule.

**Upper-division mathematics:** 11

M 427J or 427K
M 427L
M 340L

**Upper-division astronomy:** 12

AST 352K Stellar Astronomy
AST 353 Astrophysics
AST 358 Galaxies and the Universe

3 additional upper-division hours in AST

Note: AST 364P, 376C, or 376R are recommended.

**Upper-division physics:** 21

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 362K Quantum Physics II: Atoms & Molecules

**Upper-division astronomy/physics:** 9

9 additional upper-division hours in PHY and/or AST

**ELECTIVES**

Enough elective hours to reach 123 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 and Astronomy
- □ Minimum 60 hours in residence overall
- □ Minimum 36 upper-division hours
- □ 123 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
- □ 2018–20 Catalog expires August 2026

### Bachelor of Science in Astronomy (BS) 2018–20 Checklist

<table>
<thead>
<tr>
<th>Minimum Hours Required</th>
<th>Option 1: ASTRONOMY</th>
<th>Minimum Hours Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>6</td>
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<tr>
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