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

<table>
<thead>
<tr>
<th>Course Type</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:**
  - 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

- Beginning level proficiency in a foreign language
- 1 course in a foreign language & 1 three-hour course in the culture of the same language area
- 2 three-hour courses from the same foreign culture area

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

## INTRODUCTORY MATHEMATICS & SCIENCE

<table>
<thead>
<tr>
<th>Course Type</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>
</tbody>
</table>

* PHY 303K & 103M and 303L & 103N, substitute for PHY 301 & 101L and 316 & 116L. However, they are not preferred preparation for PHY 315 & 115L.

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Minimum Hours Required</th>
</tr>
</thead>
<tbody>
<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 2: COMPUTATION
Designed to provide the necessary foundation and hands-on skill in computation for the student who plans a career or further study in computational physics or computer science.

### 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 and statistics and data sciences:
14

- M 427J or 427K
- M 427L
- 6 additional hours of upper-division
- Mathematics or SDS
- SDS 329C and M 362K are recommended

### Upper-division physics:
24

- PHY 355 Modern Physics & Thermodynamics
- PHY 338K Electronic Techniques
- PHY 353L Modern Physics Laboratory
- PHY 336K Classical Dynamics
- PHY 352K Classical Electrodynamics
- PHY 329 Introduction to Computational Physics
- PHY 373 Quantum Physics I: Foundations
- PHY 369 Thermodynamics & Statistical Mechanics (373 is prerequisite or co-requisite)

1 scientific computation specialization, 12 hours total:

#### A. 1st choice
- CS 303E, and CS 313E or SDS 322
- 2 courses from 2 areas listed below:
  - Numerical methods: M 348; SDS 335; CS 323E, 323H, 367; CHE 348
  - Statistical Methods: M 358K, 378K; BME 335
  - Other computing topics: M 346, 362M, 368K, 372K, 376C; SDS 329D, 374C, 374D, 374E; CS 324E, 327E, 329E, 377; ME 367S

#### B. 2nd choice
- 12 hours from: EE 306, 312, 316, 319K, and 422C

### 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