## CORE CURRICULUM
Core courses must be chosen from approved lists. [bit.ly/1d6oP6l](https://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 course selected from approved lists maintained by the college. [bit.ly/19Ao6pc](https://bit.ly/19Ao6pc)

## 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>
</tbody>
</table>

* 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 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. Students who complete this option may simultaneously fulfill some of the requirements of the Scientific Computation and Data Sciences Certificate.

### 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 I
- 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:
12

- **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 349
    - Statistical Methods: M 358K, 378K; BME 335
  - Other computing topics: M 346, 349M, 368K, 369K, 376C; SDS 342D, 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
- 2022–24 Catalog expires August 2030