### I. UTD CORE CURRICULUM REQUIREMENTS (42 Semester Hours)

#### A. Communication (6 Hours)
- **RHET 1302** Composition & Rhetoric
- **ENGL 1302** 
  - *ENGL 1301 is prerequisite to ENGL 1302 and must be completed prior to taking ENGL 1302.
  - ENGL 1301 can be used for elective hours.
- **ECS 3390** Professional & Technical Communication*  
  - *N/A

#### B. Social and Behavioral Sciences (15 Hours)
- **GOVT 2305** * and American National Government
- **GOVT 2306** * State and Local Government
  - *The previous version of Govt 2301/2302 may be substituted.
  - The six hour requirement must include study of the Constitution of the United States and the Constitution of Texas.
- **HIST 1301** American History I
- **HIST 1302** American History II
- **HIST 2301** Texas History

#### C. Humanities and Fine Arts (6 Hours)
- **HUMA 1301** Exploration of the Humanities
- **ARTS 1301** Exploration of the Arts

#### D. Mathematics and Quantitative Reasoning (6 Hours)
- **MATH 2417** * Accelerated Calculus I
- **MATH 2419** * Accelerated Calculus II

### II. Additional Requirements

- **ENGL 1301** can be used for elective hours.

### Professional & Technical Communication

- **Professional & Technical Communication***

### Social and Behavioral Sciences (15 Hours)

- **Two of the following:**
  - American National Government
  - State and Local Government

### American History I

- The six hour requirement must include study of the Constitution of the United States and the Constitution of Texas.

### Humanities and Fine Arts (6 Hours)

- **ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL2342, ENGL 2343, ENGL 2351, FREN 2303, FREN 2304, HIST 2311, HIST 2312, HIST 2321, HIST 2322, HUMA 1305, PHIL 1301, PHIL 1304, PHIL 2303, PHIL 2306, PHIL 2307, PHIL 2321**

### Mathematics and Quantitative Reasoning (6 Hours)

- **MATH 2417** or **2419**  
  - **MATH 2414** or **2417**^  
  - **MATH 2415** or **2419**^  
  - Note: UTD's accelerated two-semester calculus sequence, MATH 2417 and MATH 2419, is equivalent to the three-semester calculus sequence offered at community colleges. Students must take Calculus I (MATH 2413), Calculus II (MATH 2414), and Calculus III (MATH 2415) in order to be equivalent to UTD MATH 2417 and MATH 2419. Students are strongly urged to start and complete the entire sequence either at the community college, or at UTD. If students choose to take Calculus I, II, and III, there may be prerequisite courses required. These courses would not be applicable towards the degree plan.

### Note

- Students may need to take additional Mathematics courses so that the total number of hours in Mathematics credited to them is at least that specified in the degree requirements. Consult with an advisor.
### UTD Courses

<table>
<thead>
<tr>
<th>E. Science (9 Hours)</th>
<th>CCCCDD Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2325/2125*</td>
<td>Mechanics and Heat w/lab</td>
</tr>
<tr>
<td>PHYS 2326/2126*</td>
<td>Electricity and Magnetism w/lab</td>
</tr>
<tr>
<td>CHEM 1311/1111*</td>
<td>General Chemistry w/lab</td>
</tr>
</tbody>
</table>

*Students who complete the C++ sequence should contact the ECS Academic Advisor for more information.*

### MAJOR REQUIREMENTS (74 Semester Hours)

#### Major Preparatory Courses: (22 Hours Beyond Core Curriculum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CS 1337</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>CS 2336</td>
<td>Computer Science II</td>
</tr>
<tr>
<td>ECS 1200</td>
<td>Introduction to Engineering and Computer Science</td>
</tr>
<tr>
<td>ECS 1200 and TE 1202^</td>
<td>Introduction to Engineering AND</td>
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<tr>
<td></td>
<td>Introduction to Electrical Engineering</td>
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<tr>
<td>MATH 2417^</td>
<td>Calculus I (Accelerated)</td>
</tr>
<tr>
<td>PH 2325/2125</td>
<td>Mechanics and Heat w/lab</td>
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<td>General Chemistry w/lab</td>
</tr>
</tbody>
</table>

*Students must take in combination and make up one upper level hour in the major.*

### ELECTIVE REQUIREMENTS (9 Semester Hours)

#### Free Electives (9 Hours):  

- Both lower-division and upper-division course may count as electives, but students must complete at least 51 hours of upper-division credit to qualify for graduation. Please consult with your advisor.

### A MINIMUM OF 125 SEMESTER HOURS IS REQUIRED FOR GRADUATION WITH AT LEAST 51 UPPER-DIVISION HOURS

*Note: Core options listed reflect the TCCNS courses. Other courses that may potentially qualify for core requirements must be petitioned through an academic advisor or the department housing the student’s major.*

UTD does not accept vocational or technical courses in certificate or applied science programs, nor courses offered through the Workforce Education Course Manual (WECM), nor developmental courses. Course credit awarded with no grade will not be accepted. Consult the current online UTD catalog for complete degree plan requirements.

http://www.utdallas.edu/student/catalog/ugcurrent/undergradprograms.html