## 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.

### 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.

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

or other core options:
- 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
- ARTS 1301: Exploration of the Arts

or other core options:
- ARTS 1303, ARTS 1304, ARTS 1313, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, MUSI 1306, MUSI 1307

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

*MATH 2417 & 2419 are lower-division major requirements that also satisfy the 6 hour Mathematics and Quantitative Reasoning core curriculum requirement.

*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.

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.
## E. Science (9 Hours)

<table>
<thead>
<tr>
<th>Collin College Courses</th>
<th>UTD 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>
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*PHYS 2325/2125 & 2326/2126 are major requirements that will also satisfy eight hours of the science core curriculum requirement.

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<tbody>
<tr>
<td>ECS 1200 and CE 1202^</td>
<td>Introduction to Engineering AND</td>
</tr>
<tr>
<td></td>
<td>ENGR 1201 AND ENGR 1172^</td>
</tr>
</tbody>
</table>

*Both ENGR 1201 and ENGR 1172 must be completed to receive credit. Students will have to take an additional 1 hour of CE/EE Major Elective to equal the number of credits specified on the degree plan.

## II. MAJOR REQUIREMENTS (77 Semester Hours)

### Major Preparatory Courses (24 hours including 3 listed above in the core curriculum)

<table>
<thead>
<tr>
<th>Collin College Courses</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>
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*Students who complete the C++ sequence should contact the ECS Academic Advisor for more information.

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*Must take in combination and make up one upper level hour in the major

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<tbody>
<tr>
<td>ENGR 2300</td>
<td>Applied Linear Algebra</td>
</tr>
<tr>
<td>CE 2310</td>
<td>Intro to Digital Systems Techniques</td>
</tr>
<tr>
<td>CE 2305</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>MATH 2420</td>
<td>Differential Equations w/ Applications</td>
</tr>
<tr>
<td>MATH 2417</td>
<td>Calculus I (Accelerated)</td>
</tr>
<tr>
<td>MATH 2419</td>
<td>Calculus II (Accelerated)</td>
</tr>
</tbody>
</table>

*MATH 2414 or 2417
(If taking Math 2414, must have completed Math 2413)

### Advanced Upper-Division Major Requirements (53 hours):

(See ECS Academic Advisor)

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## III. ELECTIVE REQUIREMENTS (7 Semester Hours)

### Free Electives (7 Hours):

Both lower-division and upper-division course may count as free 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 126 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