This is not an official degree audit and it is subject to change. This chart is intended to be used by students who start out at Texas State. Please contact the College of Science Undergraduate Advising Center for advising.

**Note:** In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.

**BS - Computer Science w/ Applied Math Minor [Round Rock Version]**

**SC-Bs/CS/APMA**

2022 Catalog year: College of Science and Engineering

### Freshman Fall semester
- Calculus I
  - TCCN MATH 2413 (MATH 2471 @ TXST)
- Philosophy
  - TCCN PHIL 1301 or 2306 (PHIL 1305 or 1320 @ TXST)
- Composition I
  - TCCN ENGL 1301 (ENG 1310 @ TXST)
- Speech
  - TCCN SPCH 1311 or 1315 (COMM 1310 or 2315 @ TXST)

### Freshman Spring semester
- Calculus II
  - TCCN MATH 2414 (MATH 2472 @ TXST)
- Programming Fundamentals II
  - TCCN COSC 1437/1337 (CS 1428 @ TXST)

### Sophomore Fall semester
- Calculus III
  - TCCN MATH 2420
- Philosophy
  - TCCN PHIL 1302 or 2307
- Composition II
  - TCCN ENGL 1302 (ENG 1311 @ TXST)
- Speech
  - TCCN SPCH 1312 or 1316 (COMM 1311 or 2316 @ TXST)

### Sophomore Spring semester
- Calculus IV
  - TCCN MATH 2421
- Philosophy
  - TCCN PHIL 1303 or 2308
- Composition III
  - TCCN ENGL 1303 (ENG 1312 @ TXST)
- Speech
  - TCCN SPCH 1313 or 1317 (COMM 1312 or 2317 @ TXST)

### Junior Fall semester
- Discrete Math
  - TCCN MATH 2305 (MATH 2358 @ TXST)
- Computer Organization
  - TCCN COSC 2425/2325 (CS 2318 @ TXST)
- Programming Fundamentals III
  - TCCN COSC 2436/2336 (CS 2308 @ TXST)

### Junior Spring semester
- Discrete Math II
  - TCCN MATH 3305 (MATH 3358 @ TXST)
- Programming Fundamentals II
  - TCCN COSC 1437/1337 (CS 1428 @ TXST)

### Senior Fall semester
- Computer Science
  - TCCN COSC 2425/2325 (CS 2318 @ TXST)
- Programming Fundamentals III
  - TCCN COSC 2436/2336 (CS 2308 @ TXST)
- Computer Organization
  - TCCN COSC 2425/2325 (CS 2318 @ TXST)

### Senior Spring semester
- Computer Organization
  - TCCN COSC 2425/2325 (CS 2318 @ TXST)
- Programming Fundamentals II
  - TCCN COSC 2436/2336 (CS 2308 @ TXST)
- Computer Science
  - TCCN COSC 2425/2325 (CS 2318 @ TXST)

**Required WI courses:**
- CS 2315, 3398

**Additional WI courses:**
- CS 4326

**Elective courses (as needed, see advisor):**
- MATH 3305
  - RR offering: F Probability & Statistics
- MATH 3377
  - RR offering: S Linear Algebra
- MATH 3323
  - RR offering: S Differential Equations

**Minor courses (as needed, see advisor):**
- MATH 3305
- MATH 3377
- MATH 3323

**Choose one project course:**
- (check prerequisites)
- CS 4318
  - RR offering: S 2022 Compiler Construction
- CS 4398
  - RR offering: S,Su2 Software Engineering Project

**12 hours advanced CS electives:**
- (check prerequisites)
  - Fall RR offerings:
    - CS 3376: Theory of Automata*
    - CS 4332: Intro to Database Systems
    - CS 4388: Computer Graphics
  - Spring RR Offerings:
    - CS 4310: Computer Networks
    - CS 4315: Intro to Data Mining
    - CS 4332: Intro to Database Systems
    - CS 4318: Compiler Construction

**Core courses must be completed:**
- US 1100 may be required for some students. Consult with an advisor regarding course choices.

**Core courses must be completed:**
- CS required course: MATH 2471
- CS required course: See catalog for options
- CS required course: COMM 1310
- Core courses must be completed:**
- 6 credits Core 010
- 6 credits Core 020
- 6 credits Core 030
- 6 credits Core 040
- 6 credits Core 050
- 6 credits Core 060
- 6 credits Core 070
- 6 credits Core 080
- 3 credits Core 090
- 3 credits Core 091
- 3 credits Core 092
- 3 credits Core 093
- 3 credits Core 094
- See catalog for options: http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum/

**Key:**
- Arrows indicate prerequisites.
- Arrows with dash lines are recommended prerequisite.
- Arrows with dotted lines indicate co-requisites.
- Courses taught specific semesters are indicated with the following codes: F-Fall, S-Spring, Su-Summer Session I or II, or COMM 2318
- Required WI courses: CS 2315, 3398
- Additional WI courses: CS 4326
- Core courses must be completed:**
- 6 credits Core 010
- 6 credits Core 020
- 6 credits Core 030
- 6 credits Core 040
- 6 credits Core 050
- 6 credits Core 060
- 6 credits Core 070
- 6 credits Core 080
- 3 credits Core 090
- 3 credits Core 091
- 3 credits Core 092
- 3 credits Core 093
- 3 credits Core 094
- See catalog for options: http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum/

**US 1100 may be required for some students. Consult with an advisor regarding course choices.**
## Important Reminders for Computer Science Round Rock Students

Computer Science majors must complete a total of 12 hours (3 courses with their corresponding labs). Six hours will also satisfy the natural science requirement of the general education core. In addition to satisfying the university graduation requirements students must earn grade of C or higher in all English and mathematics courses used to satisfy the requirements of the computer science major.

### 8 Hours of the Same Natural Science From:

<table>
<thead>
<tr>
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<th>TEXAS STATE</th>
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<tbody>
<tr>
<td>BIOL 1306 &amp; 1106 (or 1406)</td>
<td>BIO 1330 &amp; 1130</td>
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<tr>
<td>BIOL 1307 &amp; 1107 (or 1407)</td>
<td>BIO 1331 &amp; 1131</td>
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<td>CHEM 1341 &amp; 1141</td>
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<td>CHEM 1312 &amp; 1112</td>
<td>CHEM 1342 &amp; 1142</td>
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<tr>
<td>GEOL 1403</td>
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<td>GEOL 1420</td>
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<tr>
<td>PHYS 1301 &amp; 1101 (or 1401)</td>
<td>PHYS 1315 &amp; 1115</td>
</tr>
<tr>
<td>PHYS 1302 &amp; 1102 (or 1402)</td>
<td>PHYS 1325 &amp; 1125</td>
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<tr>
<td>PHYS 2425*</td>
<td>PHYS 1430*</td>
</tr>
<tr>
<td>PHYS 2426</td>
<td>PHYS 2425</td>
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</tbody>
</table>

*PHYS 2425 (TXST PHYS 1430) may not be combined with PHYS 1301/1101 or PHYS 1401 to satisfy core or degree requirements. A maximum of 8 hours of physics will apply to the natural science requirement for the CS major.

### 4 Hours of an Additional Natural Science From:

<table>
<thead>
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<tbody>
<tr>
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<td>PHYS 1325 &amp; 1125</td>
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<td>PHYS 1430*</td>
</tr>
<tr>
<td>PHYS 2426</td>
<td>PHYS 2425</td>
</tr>
</tbody>
</table>

*PHYS 2425 (TXST PHYS 1430) may not be combined with PHYS 1301/1101 or PHYS 1401 to satisfy core or degree requirements. A maximum of 8 hours of physics will apply to the natural science requirement for the CS major.

### Writing Intensive Hours:

Students are required to successfully complete 9 hours of writing intensive (WI) coursework at Texas State. Computer Science students completing their degree at Round Rock (CS RR) are guaranteed to take 6 hours of WI coursework: CS 2315 & CS 3398.

If ENG 3303 or 3311 is taken, that will satisfy the remaining 3 hours of WI coursework. If ENG 3303 or 3311 is not taken, CS RR students will likely need to complete an additional WI elective via Texas State correspondence or Texas State online courses.

### Community College Hours:

Only 66 hours from a community college can count towards the minimum hours for the degree (120 hours). Student who want to appeal that up to 74 hours of community college coursework to count towards the minimum hours for the degree must submit a Special Request Form to the College of Science and Engineering Dean’s Office: [https://www.cose.txstate.edu/advising/forms.html](https://www.cose.txstate.edu/advising/forms.html)

Completing more than 66 hours at a community college may result in being required to take additional coursework at Texas State or another four-year institution. In order to avoid additional coursework at a four-year institution, CS RR should always:

- Send updated transcripts from all institutions to Texas State
- Inform advisors of any transfer coursework not posted to your Texas State record
- Complete an “Off-Campus Request Form” on the College of Science and Engineering Advising Center website before enrolling in off-campus coursework: [https://www.cose.txstate.edu/advising/forms.html](https://www.cose.txstate.edu/advising/forms.html)

### Off-Campus Coursework at the End of Your Degree:

Students may take no more than 6 hours off-campus in their last 30 hours (the “residency requirement”). If students take more than 6 hours off-campus in their last 30 hours, they may be required to take additional hours at Texas State. CLEP exams are considered “off-campus.”

In order to avoid additional coursework at a four-year institution, CS RR should always:

- Send updated transcripts from all institutions to Texas State Admissions
- Inform advisors of any transfer coursework not posted to your Texas State record
- Complete an “Off-Campus Request Form” on the College of Science and Engineering Advising Center website before enrolling in off-campus coursework: [https://www.cose.txstate.edu/advising/forms.html](https://www.cose.txstate.edu/advising/forms.html)
- To request special permission to take more than 6 hours off-campus in your last 30 hours, fill out a “Special Request Form” before enrolling in off-campus coursework: [https://www.cose.txstate.edu/advising/forms.html](https://www.cose.txstate.edu/advising/forms.html)

**An example of a violation of the residency requirement:**

If a student take 8 hours of natural science at a community college within their last 30 hours.