BS- Computer Science w/ Applied Math Minor [Round Rock Version] (SC-BS/CS/APMA) 2020 Catalog year: College of Science and Engineering

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.

KEY:
Arrows indicate prerequisites.
Arrows with dotted lines indicate co-requisites.
Courses taught specific semesters are indicated with the following codes:
F-Fall  Su-Summer Session I or II
S-Spring  Required WI courses: CS 2315, 3398
Additional WI courses: CS 4326

Core courses must be completed:

US 1100  COMM 1310  PHIL 1305 or 1320
ENG 1310  ENG 1320  ART/DAN/MU/TH 2313
HIST 1310  HIST 1320
POSI 2310  POSI 2320
ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310
US 1100 & ENG 1310 recommended for first semester, HIST 1310/1320 not recommended for first semester.

Choose one project course:
(check prerequisites)
CS 4318  RR offering: 2022
CS 4398  RR offering: S/Su2
Software Engineering Project

Fall RR Offerings:
CS 3378: Theory of Automata*
CS 4332: Intro to Database Systems
CS 4381: Practical Game Development
*also counts for Applied Math minor

Spring RR Offerings:
CS 3393: Software Testing
CS 4310: Computer Networks
CS 4315: Intro to Data Mining
CS 4332: Intro to Database Systems

12 hours advanced CS electives:
(check prerequisites)

Choose one project course:
(check prerequisites)
CS 4318  RR offering: 2022
CS 4398  RR offering: S/Su2
Software Engineering Project

Core courses must be completed:

US 1100  COMM 1310  PHIL 1305 or 1320
ENG 1310  ENG 1320  ART/DAN/MU/TH 2313
HIST 1310  HIST 1320
POSI 2310  POSI 2320
ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310
US 1100 & ENG 1310 recommended for first semester, HIST 1310/1320 not recommended for first semester.

Choose one project course:
(check prerequisites)
CS 4318  RR offering: 2022
CS 4398  RR offering: S/Su2
Software Engineering Project

12 hours advanced CS electives:
(check prerequisites)

Choose one project course:
(check prerequisites)
CS 4318  RR offering: 2022
CS 4398  RR offering: S/Su2
Software Engineering Project

Core courses must be completed:

US 1100  COMM 1310  PHIL 1305 or 1320
ENG 1310  ENG 1320  ART/DAN/MU/TH 2313
HIST 1310  HIST 1320
POSI 2310  POSI 2320
ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310
US 1100 & ENG 1310 recommended for first semester, HIST 1310/1320 not recommended for first semester.

Choose one project course:
(check prerequisites)
CS 4318  RR offering: 2022
CS 4398  RR offering: S/Su2
Software Engineering Project

12 hours advanced CS electives:
(check prerequisites)

Choose one project course:
(check prerequisites)
CS 4318  RR offering: 2022
CS 4398  RR offering: S/Su2
Software Engineering Project

Core courses must be completed:

US 1100  COMM 1310  PHIL 1305 or 1320
ENG 1310  ENG 1320  ART/DAN/MU/TH 2313
HIST 1310  HIST 1320
POSI 2310  POSI 2320
ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310
US 1100 & ENG 1310 recommended for first semester, HIST 1310/1320 not recommended for first semester.

Choose one project course:
(check prerequisites)
CS 4318  RR offering: 2022
CS 4398  RR offering: S/Su2
Software Engineering Project

12 hours advanced CS electives:
(check prerequisites)

Choose one project course:
(check prerequisites)
CS 4318  RR offering: 2022
CS 4398  RR offering: S/Su2
Software Engineering Project

Core courses must be completed:

US 1100  COMM 1310  PHIL 1305 or 1320
ENG 1310  ENG 1320  ART/DAN/MU/TH 2313
HIST 1310  HIST 1320
POSI 2310  POSI 2320
ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310
US 1100 & ENG 1310 recommended for first semester, HIST 1310/1320 not recommended for first semester.
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>
<th>TCCN</th>
<th>TEXAS STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1306 &amp; 1106 (or 1406)</td>
<td>BIO 1330 &amp; 1130</td>
</tr>
<tr>
<td>BIOL 1307 &amp; 1107 (or 1407)</td>
<td>BIO 1331 &amp; 1131</td>
</tr>
<tr>
<td>CHEM 1311 &amp; 1111</td>
<td>CHEM 1341 &amp; 1141</td>
</tr>
<tr>
<td>CHEM 1312 &amp; 1112</td>
<td>CHEM 1342 &amp; 1142</td>
</tr>
<tr>
<td>GEOL 1403</td>
<td>GEOL 1410</td>
</tr>
<tr>
<td>GEOL 1404</td>
<td>GEOL 1420</td>
</tr>
<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>
</tr>
<tr>
<td>PHYS 2425*</td>
<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.

4 Hours of an Additional Natural Science From:

<table>
<thead>
<tr>
<th>TCCN</th>
<th>TEXAS STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1306 &amp; 1106 (or 1406)</td>
<td>BIO 1330 &amp; 1130</td>
</tr>
<tr>
<td>BIOL 1307 &amp; 1107 (or 1407)</td>
<td>BIO 1331 &amp; 1131</td>
</tr>
<tr>
<td>CHEM 1311 &amp; 1111</td>
<td>CHEM 1341 &amp; 1141</td>
</tr>
<tr>
<td>CHEM 1312 &amp; 1112</td>
<td>CHEM 1342 &amp; 1142</td>
</tr>
<tr>
<td>GEOL 1403</td>
<td>GEOL 1410</td>
</tr>
<tr>
<td>GEOL 1404</td>
<td>GEOL 1420</td>
</tr>
<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>
</tr>
<tr>
<td>PHYS 2425*</td>
<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

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

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
- 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

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...