### BS – Computer Science (Teacher Certification)

**Core and Minor Requirements**

Note: Advising Center for advising

State 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.
- Arrows with dash lines are recommended prerequisite.
- Courses taught specific semesters are indicated with the following codes:
  - F-Fall
  - S-Spring
- Required WI courses: CS 2315, 3398
- Additional WI courses: CS 4326

**Core courses must be completed:**

*US 1100*  
*ENG 1310*  
*HIST 1310*  
*COMM 1310*  
*PHIL 1305 or 1320*

*ENG 1310*  
*ENG 1320*  
*ENG 2310-2360*  
*HIST 1320*  
*ART/DAN/MU/TH 2313*  
*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.

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<th>Freshman Fall semester</th>
<th>Freshman Spring semester</th>
<th>Sophomore Fall semester</th>
<th>Sophomore Spring semester</th>
<th>Junior Fall semester</th>
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| 4 hours science from approved list | 4 hours science from approved list | 4 hours science from approved list | 4 hours science from approved list | 3 hours from: ENG 3311 (recommended), ENG 3303, ENG 2310-2360 (must be new course) | 3 hours from: ENG 3369 – Embedded Computer Systems
  *CS 4326 (F.S) – Human Factors
  *CS 4398 (S,Su) – Software Engineering Project
  *(check prerequisites) CS 3369 replaced CS 4468
|
| CS 1428 (F,S,Su) Foundations of Computer Science I | CS 2308 (F,S,Su) Foundations of Computer Science II | CS 3358 (F,S,Su) Data Structures | CS 3339 (F,S,Su) Computer Architecture |
| MATH 2471 (F,S,Su) Calculus I | MATH 2472 (F,S,Su) Calculus II | MATH 2358 (F,S,Su) Discrete Math I | MATH 3398 (F,S,Su) Discrete Math II |
| MATH 3305 (F,S,Su) | MATH 3354 (F,S,Su) Object-Oriented Design & Implementation |
| 6 hours CS elective (check prerequisites) | 3 hour CS advanced elective (check prerequisites) |
| 4354 (F,S,Su) & recommended for first semester |
| Block experience: | |
| EDST 4681 Student Teaching |
| Choose one project course: |

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**2015 Catalog year: College of Science and Engineering**