

Computer Science Minor Requirements

- A minor in Computer Science (CS) consists of a minimum of 18 hours of CS coursework with at least 6 hours at the 3000-4000 level.
- Students must have a 3.0 or higher TTU GPA to minor in CS.
- CS minor students require the approval of the CS Undergraduate Academic Advisor. For permits and questions, you may email the current advisor and/or call 806-834-1062.

CS Core Curriculum Courses

Course #	Description
CS 1411	Programming Principles I Prereq: Dept. Approval
CS 1382	Discrete Computational Structures Prereq: CS 1411
CS 1412	Programming Principles Prereq: CS 1411
CS 2413	Data Structures Prereq: CS 1412
CS 2350	Computer Organization and Assembly Language Programming Prereq: CS 1412 and ECE 2372
CS 2365	Object Oriented Programming Prereq: CS 2413
CS 3361	Concepts of Programming Languages Prereq: CS 2413
CS 3364	Design and Analysis of Algorithms Prereq: CS 1382, CS 2413, and MATH 2360 (linear algebra)
CS 3365	Software Engineering I Prereq: CS 2413, CS 2365, MATH 3342 (Statistics) <i>or equivalent</i>
CS 3375	Computer Architecture Prereq: CS 2350 or ECE 3362
CS 3383	Theory of Automata Prereq: CS 1382
CS 4352	Operating Systems Prereq: CS 3364 and CS 3375
CS 4354	Concepts of Database Systems Prereq: CS 3364
CS 4365	Software Engineering II Prereq: CS 3365
MATH 4330	Mathematical Computing (will take place of 3 hours of needed CS 3000-4000 level) Prereq: Consent of Undergraduate Programming Director of MATH dept. *course needs to be evaluated each semester by CS dept. to determine transferability

Other courses may count as equivalents with departmental approval

*CS electives may be taken for credit to a CS minor, however availability varies per semester and courses of interest are not guaranteed to be offered in the desired semester

*Minor course selection excludes CSs 1300, 1303, 1305, and 4366

*Tutoring is available in the Learning Center, Room 080 of Holden Hall

****Having a background in the languages of C, C++, Java, and Python before starting CS courses will help immensely. The library, CS dept., and internet all have resources to help in this goal. We see increased student success if they don't have to learn both the theory and language at the same time. A dedicated course is not needed, but we would push for at least a cursory familiarization***

****CS is very math oriented; although the department does not require minor students to progress in math to complete the minor, it is in the student's best interest to have, at the very least, a good foundation in Algebra and a small knowledge of Calculus materials.***

The current advisor can be reached at
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Revised 5.11.16 TK