UTEP Computer Science Undergraduate Degree Flowchart

MATH 1508 Precalculus (required by entrance test)

Catalog prerequisite →

CS 1301 & 1101 Introduction to CS

RWS 1301 Rhetoric & Composition 1

MATH 1411 Calculus I

All prerequisite courses and all University Core courses must be completed with grade of "C" or better.

Univ. Core

CS 2401 Elementary Data Structures

RWS 1302 Rhetoric & Composition 2

CS 2101 & 2202 Discrete Structures

Or

MATH 2300 Discrete Math

HIST 1301 History of U.S.

Univ. Core

EE 2369 & 2169 Digital System Design I & Lab

CS 2302 Data Structures

MATH 1312 Calculus II

HIST 1302 History of U.S.

Univ. Core

CS 3350 Automata

MATH 3323 Matrix Algebra

POLS 2310 PolitiCcs

PHYS 2420 Introductory Mechanics

Univ. Core

CS 3432 Computer Architecture I

CS 3331 Adv. Object Oriented Programming

POLS 2311 Am. Govt.

Math or Science Option 3 credits

Univ. Core

CS 3195 Jr. Professional Orientation

CS Tech Elective

CS 3360 Programming Languages

STAT 3320 Prob. & Statistics for Comp. Sci.

Life and Physical Sciences

CS 4375 Theory of Operating Systems

CS 4310 Software Engineering I

CS Tech Elective

CS 4342 Database Management

Free Elective

University Core Areas
1. Language, Philosophy and Culture
2. Creative Arts
3. Social and Behavioral Sciences
4. Component Area Option 1
5. Component Area Option 2

CS Tech Elective

CS 4175 Parallel Computing

CS 4311 Software Engineering II

CS Tech Elective

CS Tech Elective

Life and Physical Sciences
ASTR 1307 and 1107;
PHYS 2421;
BIOL 1305 and 1107;
BIOL 1306 and 1108;
CHEM 1305 and 1105;
CHEM 1306 and 1106;
GEOL 1313 and 1103;
GEOL 1314 and 1104.

CS Technical Electives
CS 1110, CS 1120, CS 2210, CS 1190, CS 1290, CS 3000 or 4000 level course. No more than three credit hours of CS 1xxx and CS 2xxx can count for technical electives. No more than six credit hours of CS 1xxx, CS 2xxx, CS 4390, CS 4181, CS 4371, CS 4x73, CS 4392 and/or CS 4393 (in any combination) can count for technical electives.

Math or Science option
MATH 2313, 2325, 2326, 3320, 3325, 4329, STAT 3381, 4380, 4385, or a Science lecture from the Science list.

Free Elective
College-level courses (not remedial) offered by the college of Liberal Arts, Business, Science, or Engineering.