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

MATH 1508 Precalculus (required by entrance test)

CS 1301 & 1101 Introduction to CS
CS 2401 Elementary Data Structures
CS 2302 Data Structures
CS 3350 Automata
CS 3432 Computer Architecture I
CS 3435 Theory of Operating Systems
CS 3331 Adv. Object Oriented Programming
CS 3360 Programming Languages
CS 4310 Software Engineering I
CS 4311 Software Engineering II
CS 4342 Database Management
CS Tech Elective
CS Tech Elective
CS Tech Elective
CS Tech Elective
CS Tech Elective

MATH 1411 Calculus I
MATH 2300 Discrete Math
MATH 1312 Calculus II
MATH 3323 Matrix Algebra

EE 2369 & 2169 Digital System Design 1 & Lab

STAT 3320 Prob. & Statistics for Comp. Sci.

RWS 1301 Rhetoric & Composition 1
RWS 1302 Rhetoric & Composition 2

HIST 1301 History of U.S.
HIST 1302 History of U.S.
PHYS 2420 Introductory Mechanics

POLS 2311 Am. Govt.
POLS 2310 PolitiCcs

Free Elective

Univ. Core

Univ. Core

Univ. Core

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

Math or Science Option 3 credits

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

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

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

Catalog prerequisite

UTEP Computer Science Undergraduate Degree Flowchart