Computer Science Prerequisite Chart (Fall 2025)

Calculus Readiness

CS 2435 Intro to Scientific Programming

CS 1440 Computer Science I — **C**

CS 1100 Discrete Mathematics — **C**

MAT 1110 Calculus I

CS 3435 Data Collection & Visualization — **C**

CS 2440 Computer Science II — **C**

CS 3430 Database

MAT 1120 Calculus II — **C-**

STT 3850 Statistical Data Analysis I

MAT 2240 Linear Algebra — **C-**

CS 3100 ENG 3695 Writing in Discipline — **C**

CS 3667 Software Engineering

CS 2450 Intro to Computer Systems — **C**

CS 2490 Intro to Theoretical Computer Science

CS 3460 Data Structures

Junior standing

Department approval

CS 4900 Internship

CS 3490 Programming Languages — **C-** **C-** **C-**

CS 3481 Computer System I — **C-**

CS 2530-2549

CS 3530-3549

CS 4530-4549

Selected Topics Courses count as CS Elective
Consult advising notes for prerequisites

Senior standing

CS 3482 Computer System II — **C-**

CS 4800 Capstone — **C-**

CS 4100 Sr. Seminar

CS 4570 Human Computer Interfaces

Instructor permission

Legend

Required for B.S.

B.S. Elective

Data Science certificate

either-or prerequisite ⊗

Prerequisite →

Co-requisite ⇢

X minimum grade for entry →

CS 2440 — **C**

CS 3240 Mobile Device Programming

CS 3440 Client-side Web Programming

CS 3341 Incident Response with Threat Intelligence

CS 2490 — **C-**

CS 4550 Theoretical Computer Science

CS 1440   **MAT 2240** — **C**

CS 4740 Digital Image Processing

CS 4435 Server-side Web Programming

CS 3430

CS 3481

CS 4680 Embedded Systems

MAT 2310   **MAT 2240**

MAT 4310 Numerical Methods

CS 4450 Data Communications and Networking

CS 3460   **CS 3435** — **C-** ⊗

CS 3760 System Administration and Security — **C**

CS 4460 Algorithms — **C-**

CS 4465 Computer Graphics — **C-**

CS 3750 Applied Neural Networks

CS 4755 Applied Machine Learning

CS 4440 Artificial Intelligence

CS 4521 Operating Systems

MAT 4990 Numerical Linear Algebra

MAT 2240

STT 3850

CS 3482