

## Computer Science (BS)

### FALL - Semester 1

**CS 180:** Foundations of Computer Science I  
**TRU 100:** Truman Symposium  
**TRU 116:** Self and Society, Artificial Intelligence Perspectives Class\*  
Foreign Language  
**MATH 198:** Analytic Geometry and Calculus I

### FALL - Semester 3

**CS 250:** Systems Programming  
**CS 260:** Object-Oriented Programming  
**CS 291** or later  
Perspectives Class

### FALL - Semester 5

**CS XXX:** One elective from Area A, B, or C  
JINS Class  
Perspectives Class  
BS Requirement

### FALL - Semester 7

**CS 495:** Senior Seminar  
**CS XXX:** One or two electives from Area A, B, or C  
Perspectives Class  
BS Requirement  
Elective

### SPRING - Semester 2

**CS 181:** Foundations of Computer Science II  
**CS 191:** Computing Structures Perspectives Class  
Foreign Language  
**MATH 263:** Analytic Geometry and Calculus II  
Could consider CS 291 or STAT 290

### SPRING - Semester 4

**CS 310:** Data Structures and Algorithms  
**CS 330:** Computer Architecture and Organization  
**CS 291** or STAT 290  
Perspectives Class  
Required Support Course

### SPRING - Semester 6

**CS XXX:** One elective from Area A, B, or C  
**CS 345:** Cyberethics (also available summer)  
STAT 290: Statistics  
Perspectives Class  
Elective

### SPRING - Semester 8

**CS XXX:** One or two electives from Area A, B, or C  
Capstone Experience  
Perspectives Class  
Electives to total at least 120 hours

### Notes:

**Area A** courses include CS 315: Programming, CS 360: Systems Analysis and Design, CS 370: Software Engineering, and CS 430: Database Systems.

**Area B** courses include CS 390: Operating Systems, CS 420: Compilers, CS 435: Parallel and Distributed Processing, CS 455: Computer Security, CS 470: Computer Networks.

**Area C** courses include CS 325: Introduction to Bioinformatics, CS 380: Programming Languages, CS 420: Compilers, 430: Database Systems, CS 435: Parallel and Distributed Processing, CS 455: Computer Security, CS 460: Computer Graphics, CS 480: Artificial Intelligence, and CS 490: Automata Theory and Formal Languages.

**\*Dialogues Curriculum:** The Dialogues Curriculum requires a certain number of courses/credit hours in the following Perspectives: Social, Arts and Humanities, STEM, Communications, and Statistics. The exact number of courses a student will be required to take during their undergraduate career varies individually according to the credit transferred in.

**Department Chair:** Please contact the [Center for Academic Excellence](#) with any updates to the plan above.