

Sample Four Year Plan

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:

We offer topics courses regularly in Areas A, B, and C:

Area A courses include CS 315: Programming, 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.

| **Foreign Language: Can be taken any semester, but Elementary II proficiency required for BS degree. |
|---|
| Department Chair: Please contact the <u>Center for Academic Excellence</u> with any updates to the plan above. |
| |