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

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

FALL - Semester 3
CS 250: Systems Programming
CS 260: Object-Oriented Programming
CS 291 or later
Perspectives Class

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

FALL - Semester 5
CS XXX: One elective from Area A, B, or C
JINS Class
Perspectives Class
BS Requirement

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

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 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 Center for Academic Excellence with any updates to the plan above.