Course Descriptions (Fall 2025 Offerings)

CS 101: Introduction to Programming (3 Credits) *A foundational course for all majors. Students learn essential programming concepts, logical thinking, and problem-solving using the Python language. Topics include variables, control flow, functions, and basic file I/O.*

CS 102: Data Structures and Algorithms (4 Credits) *Focuses on the design, implementation, and analysis of fundamental data structures (lists, stacks, queues, trees, graphs) and classic algorithms. Includes weekly lab sessions for practical application. |* ***Prerequisite:*** *CS 101 with a grade of C or better |*

CS 301: Operating Systems (3 Credits) *Explores the fundamental concepts of modern operating systems, including process management, memory management, file systems, and security. Students will implement core OS components in a low-level language. |* ***Prerequisite:*** *CS 210 |*

CS 450: Artificial Intelligence (3 Credits) ***(Sample Elective)*** *Introduces the core concepts and techniques of Artificial Intelligence. Topics include search algorithms, knowledge representation, machine learning basics, and natural language processing. |* ***Prerequisite:*** *CS 102 |*