

# COMPUTER SCIENCE (CS)

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**CS 105 - Introduction to Computing** **Units: 3**

Introduction to essential concepts and practices in computing. Design, assemble, and operate basic computer hardware and software in a collaborative environment.

*Term Offered: Spring and Fall*

**CS 135 - Computer Science I** **Units: 3**

This course is an introduction to modern problem solving and programming methods. Emphasis is placed on algorithm development. A special focus will be on procedural and data abstraction, emphasizing design, testing, and documentation.

*Enrollment Requirements: Prerequisite: MATH 127 or MATH 128 or satisfactory test placement into MATH 181. May be taken concurrently with MATH 127.*

*Term Offered: Spring and Fall*

**CS 151 - Introduction to Cybersecurity** **Units: 3**

Introduction to fundamental concepts of cybersecurity, common cybersecurity vulnerabilities and threats, and techniques and tools for detecting and defending against cyber-attacks.

*Term Offered: Spring and Fall*

**CS 202 - Computer Science II** **Units: 3**

This course builds on the concepts of Computer Sciences I. Emphasis on problem solving and program development techniques. Typical numerical and non-numerical problems are examined. Design, implementation, and abstraction principles of elementary data structures are studied.

*Enrollment Requirements: Prerequisite: CS 135 with a 'C' or better; MATH 127 or higher, or qualifying ACT, SAT or Accuplacer score.*

*Term Offered: Spring and Fall*

**CS 219 - Computer Organization** **Units: 3**

Introduction to organization and integration of computer components. Topics include: computer abstractions and performance, arithmetic operations, instruction set architecture, assembly programming, datapath, pipelining, memory hierarchy, I/O, and parallel architectures.

*Enrollment Requirements: Prerequisite: CS 202 or CPE 201*

*Term Offered: Spring and Fall*

**CS 252 - Digital Forensics Fundamentals** **Units: 3**

Introduction to the basic computer and networking, forensic process, digital evidence collection, preserving the evidentiary chain, cybercrime statutes, and the legal aspects of search and seizure.

*Term Offered: AS NEEDED*