Computer Science (CS)

CS 110 Introduction to Microcomputer Applications
3 credits | REEL
Quarter(s): S, F, W, Sp
Introduces microcomputers and software applications. Presents Windows, word processing, and electronic spreadsheets basics.
Prerequisite: Ability to use a keyboard

CS 170 Fundamentals of Computer Programming
5 credits | ELEC
Quarter(s): F, W, Sp
Offers an introduction to computer programming concepts and the development of applications. Program development, style, testing, and documentation are presented, discussed and applied using the C++ programming language. This course is a beginning course for CS majors and others, such as engineering transfer students, wishing an introduction to structured computer programming.
Prerequisites: MATH 88 or MATH 97 with a grade of C or better; or CCP 88 or CCP 97 with a grade of B or better; and knowledge of Windows is required; or instructor permission.

CS 175 Event-Driven Programming UWP C#
5 credits | REEL
Quarter(s): Sp
Offers an introduction to designing and implementing Windows applications using C#. Covers concepts involving event-driven programming, graphical user interface design, and algorithm implementation are covered.
Prerequisites: CS 170 with a grade of C or better, or instructor permission

CS 208 Introduction to Management Information Systems
5 credits
Quarter(s): W
Introduction to the principles, roles, and application of Management Information Systems (MIS) in business. Investigations into MIS include hands-on lab experiences and case studies.
Prerequisite: BUS& 101, ENGL& 101, or instructor permission. CS 110 recommended.

CS 270 Data Structures I
5 credits | NSCI, ELEC
Quarter(s): F
Offers a detailed study of structured and object-oriented programming, including algorithms, searching and sorting, and data structures using the programming language C++.
Prerequisite: CS 170 and MATH 98 (or CCP 98 with a grade of B or better), or higher, with a grade of C or better, or instructor permission.

CS 275 Object-Oriented Programming
5 credits | REEL
Quarter(s): W
Offers an introduction to the object-oriented programming paradigm using Java. Various object-oriented programming concepts will be discussed. Object-oriented programs will be developed and implemented.
Prerequisite: CS 170 with a grade of C or better, or instructor permission.

CS 280 Advanced Data Structures
5 credits | REEL
Quarter(s): Sp
Offers a detailed study of advanced data structures, including the analysis of algorithms and object-oriented programming using the programming language C++.
Prerequisites: CS 270 and MATH& 141 (was MATH 112), both with a grade of C or better, or instructor's permission.

CS 285 Programming Tools
5 credits | REEL
Quarter(s): Sp
Discusses programming techniques using C and C++ including debugging tools, scripting languages, UNIX programming tools, and familiarity with Unix/Linux system programming.
Prerequisite: CS 270 with a grade of C or better, or instructor permission.

CS 288 Cooperative Work Experience
1-15 credits
Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.
Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

CS 299 Independent Study
1-10 credits
Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.
Prerequisites: By instructor permission only.