Computer Science (CS)

CS 110  S,F,W,Sp  3 credits
INTRODUCTION TO MICROCOMPUTER APPLICATIONS  E
Introduces the student to microcomputers and software applications. Windows, word processing, and electronic spreadsheets basics are presented. (Formerly known as CIS 110)
Prerequisite: Ability to use a keyboard

CS 170  Sp  5 credits
FUNDAMENTALS OF COMPUTER PROGRAMMING  E
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 089 or TECH 089 or MATH 097 with a grade of C or better and knowledge of Windows is required; or instructor permission.

CS 208  W  5 credits
INTRODUCTION TO MANAGEMENT INFORMATION SYSTEMS  E
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. (Formerly known as CIS 260)
Prerequisite: BUS& 101 (was BSAD 110), ENGL& 101, or instructor permission. CS 110 (was CIS 110) recommended.

CS 270  F  5 credits
DATA STRUCTURES I  E
Offers a detailed study of structured and object-oriented programming, including algorithms, searching and sorting, and data structures using the programming language C++. (Formerly known as CIS 280)
Prerequisite: MATH 099 or TECH 099 and CS 170, both with a grade of C or better, or instructor permission.

CS 275  W  5 credits
OBJECT-ORIENTED PROGRAMMING IN JAVA  E
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. (Formerly known as CIS 285)
Prerequisite: CS 170 (was CIS 180) with a grade of C or better, or instructor permission.

CS 280  Sp  5 credits
ADVANCED DATA STRUCTURES  RE
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 281  5 credits
DIGITAL DESIGN AND COMPUTER ORGANIZATION  E
Introduces elementary digital logic design and the organization of computers.
Prerequisites: MATH& 141 (was MATH 112) and CS 270, both with a grade of C or better, or instructor permission.

CS 282  W  5 credits
ASSEMBLY LANGUAGE PROGRAMMING(WAS MICROPROCESS.)  E
Introduces protected-mode assembly language programming. Covers assembly language concepts and code in the context of either "C" or C++.
Prerequisites: CS 281 with a grade of C or better, or instructor permission.

CS 285  5 credits
PROGRAMMING TOOLS  E
Covers tools and techniques which facilitate programming and debugging, including debuggers, profilers, scripting, and C and C++ programming under the Linux operating system. Formerly known as CIS 235.
Prerequisite: CS 270 (was CIS 280) with a grade of C or better, or instructor permission.