

Computer Science Career Exploration Track

Major Description:

A major in computer science requires between 60 and 63 credit hours of coursework, depending on placement. Students in computer science begin their study with a basic core of informatics coursework, then move on to a chain of courses designed to build their software development skills. The program is rounded out by a set of electives sampled from a variety of application areas (such as artificial intelligence, computer graphics, and computer security).

Course Plan:

Semester	Course
1 st Semester	INF 120: Elementary Programing
2 nd Semester	CSC 260/260L: Object-Oriented Programming
3 rd Semester	INF 284: Intro to Networks and Data Communication
4 th Semester	INF 286: Intro to Web Development

Course Descriptions:

INF 120: Elementary Programing

Prerequisite: C- or better in MAT 102 or ACT Math of 25

An elementary introduction to programming for those with no previous programming experience. Emphasis on understanding how to read and write basic procedural programs, and on understanding the concepts of algorithm and execution. General Education Credit: Natural Science

CSC 260/260L: Object Oriented Programming I

Note: Can be exempted from this course with an AP Computer Science A score of 3, 4 or 5.

Prerequisite(s): C- or better in MAT 103 (or higher) and INF 110 or INF 120 or placement.

Elementary object-oriented programming concepts and practice: types, decisions, loops, methods, arrays, classes; design and problem-solving. An intensive introduction intended for students with programming experience.

INF 284: Intro to Networks and Data Communication

Prerequisite: C- or better in MAT 103 or ACT Math of 27; INF 110, INF 120 or CIT 130

Introduction to computer networking principles, focusing on network applications such as HTTP, Email, DNS, SSH and DHCP. Various protocols in the TCP/IP stack and emerging networking technologies are covered. Lab exercises reinforce concepts.

INF 286: Intro to Web Development

Prerequisite: C- or better in MAT 103 or ACT Math of 27 AND C- or better in INF 120 or CSC 260

An introduction to web design and development for majors in the informatics fields. Web page creation and HTML; site organization and best practices; e-business planning, models and strategies; overview of XML and CSS; introduction to client-side and server-side programming.

Links:

[Computer Science Program Website](#)