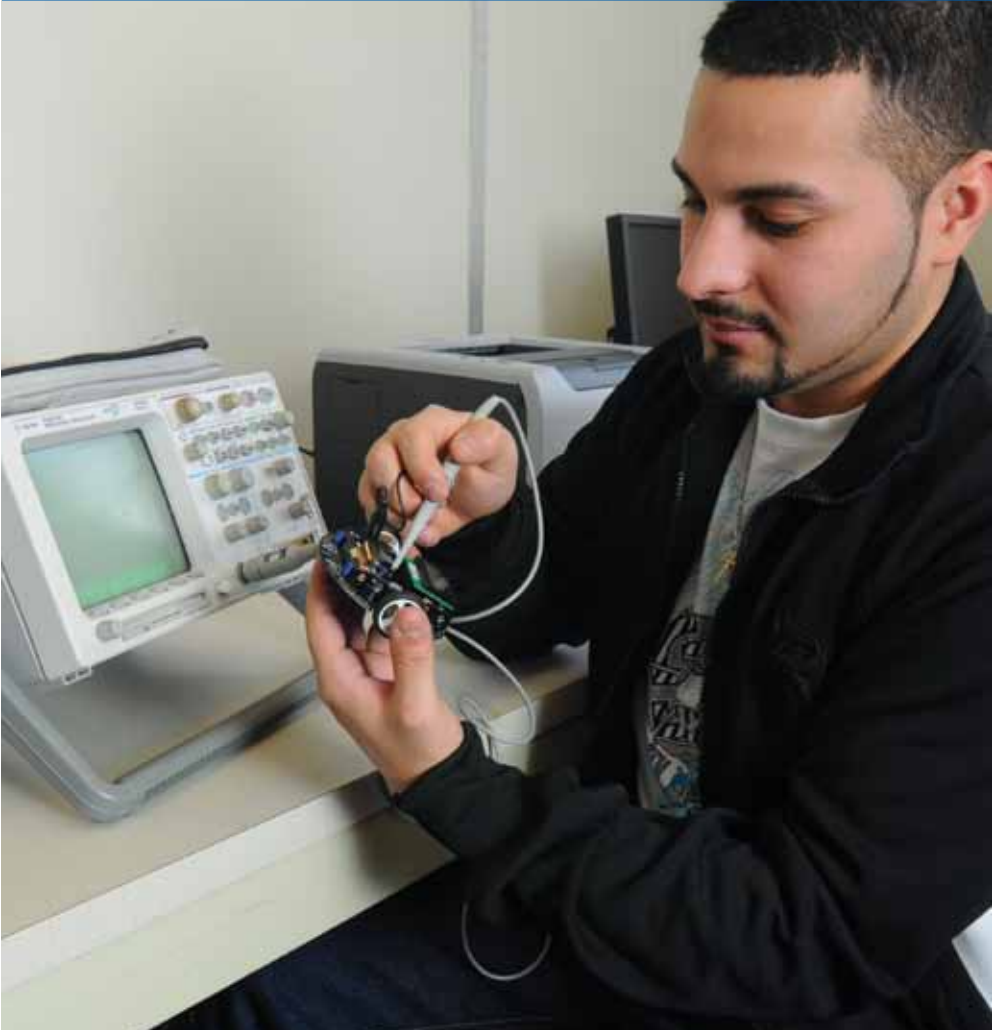


Computer and Information Sciences



Where Success is a Tradition



Two of the fastest growing occupations in today's evolving economy are computer software engineer and data communications analyst, according to the U.S. Bureau of Labor Statistics. Approximately 330,000 new specialists in these two fields will be needed by 2018.

Students and faculty genuinely excited about this dynamic discipline which positively enhances people's lives comprise the Department of Computer and Information Sciences at SUNY Fredonia.



TO VIEW THE ONLINE
ACADEMIC CATALOG GO TO
www.fredonia.edu/catalog

“Tell me and I forget. Teach me and I remember.
Involve me and I learn.”

Benjamin Franklin

With a student-centered focus, all classes are relatively small in size allowing faculty members to provide individual guidance to all undergraduates. Innovation is a hallmark of the department, which offers a wide range of courses that include networking, artificial intelligence, ethics and security, computer graphics and image processing, among others. Faculty members are accomplished scholars who include their students in research activities – an opportunity that most other universities and research centers usually limit to graduate students.



FACILITIES

Conducting most courses in computer labs allows instructors to directly monitor student progress and offer assistance. Student learning is enhanced by hands-on experience with a wide range of software and hardware housed in a state-of-the-art computer lab. Computers in this lab utilize different operating systems geared to meet specific demands of individual work projects undertaken by students. The computer lab is also equipped with several servers that enable students to gain experience as system administrators.

INTERNSHIPS

Students are strongly encouraged by the department to include an internship in their curriculum, which provides practical experience and may create a future career path, during their undergraduate education. Students also have access to internships with companies at the new SUNY Fredonia Technology Incubator, a \$6 million facility designed to accommodate up to 31 start-up technology firms. Additionally, some 200 new jobs are expected to be created in the next five years by companies launched at the incubator.

Under the guidance of Fredonia’s
accomplished faculty, students examine
questions relevant to their lives.



COURSES

The department offers innovative courses on Android programming, *Ruby on Rails* – an environment for social network development, *Blender* – a system for 3D modeling, *iPhone* and *Windows Phone 7* programming and *Alice*.

CAREERS

Department alumni work as computer consultants, programmers, systems analysts, network administrators, project managers, software engineers and developers, hardware specialists and university professors. Leading companies such as AT&T, IBM, Eastman Kodak, General Electric and Xerox hire these SUNY Fredonia graduates.

FACULTY

Computer and Information Sciences faculty are dedicated to teaching excellence and caring for students. In addition to receiving numerous campus, SUNY and international awards and honors, faculty are active in research and have chaired, organized and presented at national and international conferences. Many have also published books and contributed articles to renowned journals.



SCHOLARSHIPS

The Department of Computer and Information Sciences bestows scholarships to support students with financial assistance and intellectual motivation. The John Beck Memorial Scholarship, the Arthur R. Maytum Scholarship and the Endowment Scholarship are among those offered.

MAJORS

Two Bachelor of Science degree programs are offered: Computer Science and Computer Information Systems.

The Computer Science major can appeal to students who enjoy solving puzzles, inventing new ways of using computers or exchanging theories about new ideas. Upon completing core courses, students follow the department’s general education track or specialize in one of four areas:

- Computer Theory
- Applied Mathematics
- Systems Software
- Geographic Information Systems

The Computer Information Systems major is designed for students who want to make computers more efficient and productive or to understand how computers can improve business operations. After completing a core of fundamental courses in Computer Information Systems, students can choose between two tracks:

- System Development
- Systems Management

MINORS

Students who major in another discipline but who also want to acquire computer skills can have a minor in Computer Science or Computer Information Systems. A minor in either field can sometimes be completed with the addition of a few courses.



Where Success is a Tradition

To learn more, contact

Computer and Information Sciences

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