

Electronics and Computer Technology

Associate of Applied Science Electrical/Electronic Engineering Technology Electronics and Computer Technology

According to the IEEE Computer Society, computers are used in almost every aspect of today's life: in automobile engines, microwave ovens, video games, watches, telephones, desktops at home and work, mainframe computers in government and industry, and in super-computers extending the frontiers of science and technology. The computer, network and Internet industries are the fastest growing segments of our economy and of the new millennium.

Career Opportunities

More than ever, there is a demand for a prepared work force with the scientific and technical training necessary to help American industry to maintain a competitive edge in the world market. Students who are interested in computer and network engineering technology can pursue a four-year bachelor's degree or a two-year associate degree. Technologists with the bachelor's degree may work creating scientific and engineering advances or producing high quality products and are more likely than the technician to take on a project-leadership role after a year or two of experience.

A student with a two-year degree can enter the industry as a member of an engineering team working with engineers, technologists and other engineering technicians. Technicians are often involved in the maintenance, repair, installation, industrial application, testing, trouble-shooting, sales and field service of computer and network systems. They are expected to keep up with the latest technological advancements.

Typical job titles include: computer systems specialist, computer support specialist, computer maintenance technician, software engineering technician, installation technician, field engineer, field service representative, systems integrator and applications specialist, and systems support technician.

Employment Outlook

The U.S. Dept. of Labor expects the computer and network engineering technology career to be the fastest growing field well into the 21st century. According to the latest figures from the Ohio Department of Jobs and Family Services, computer support specialists and computer engineers are the top two fastest growing occupations through 2008. Projected growth employment rates exceed 90 percent.

Curriculum Program Requirements

Communications (6 hours minimum)
English
Speech Communications

General Studies (6 hours minimum)
Choose courses from the following sections, with no more than one course from each section:

Social and Behavioral Sciences
Arts and Humanities
Cultural Diversity

Basic Courses (20 hours minimum)
College Algebra & Trigonometry MATH,
or Pre-calculus
[Based on placement tests, additional
MATH may also be required, but does
not count toward graduation.]

Physics I
Physics II or Chemistry
Computer Programming
Advanced Programming or
Microcomputer Systems

Electronics and Computer Technology Major (37 hours minimum)

Design & Engineering Graphics
Introduction to Lean Processes/Systems
or Basic Computer-Aided Design
Energy, Power, Instrumentation and
Control
Electric Circuits
Electronic Circuits
Digital Electronic Components and
Systems
Real Time Microcomputer Systems for
Industrial Control
Programmable Logic Controllers

Electrical Measurements and
Instrumentation
Digital Computer Analysis
Network & Internet Principles
Network & Internet Implementation

For Further Information

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Your University Opportunity

BGSU Firelands, located in Huron, Ohio, is a regional campus and one of the seven undergraduate colleges of Bowling Green State University. We offer many of the advantages and resources of a major university, but in a smaller, more personal environment.

Generally, students are able to complete at least two years of coursework toward most of the 200-degree programs at BGSU before transferring to the main campus, or to another college or university.

BGSU Firelands offers students a wireless environment campus wide. Kiosks and public-access computers located in most campus buildings provide easy Internet access. In addition, there are several on-campus computer labs with a variety of computers and software programs.

The library, containing more than 30,000 volumes, is computer-linked to the more than 4 million items available through BGSU's libraries to provide excellent research opportunities.

Academic advisors work individually with students to plan their degree programs and small class sizes allow students to have close, personal contact with their professors. Free tutoring is readily available through the Teaching and Learning Center. Scholarships, grants and loans are available to assist students with tuition.

NOTE: Information in this guide is subject to change without notice. To learn more about the official program of study for Electronics and Computer Technology, please check the undergraduate catalog online at: www.bgsu.edu/catalog/FIR/FIR37.html#ECT