

Computer Science Technology

Associate of Applied Business in Computer Science Technology

The associate of applied business in computer science technology prepares students for employment as computer support specialists or computer networking specialists. Employment opportunities for these fields are expected to grow. The curriculum for each of these majors are designed around the knowledge, skills, and abilities needed for employment.

Computer Support Specialist

Computer support specialists provide technical assistance to computer users. They provide overall organizations support in the selection and implementation of new software as well as work at the individual level answering questions and solving problems. They must be knowledgeable of hardware, operating systems, application software, and peripheral devices. Employment opportunities exist in industries that design and provide services for computer systems, administrative units of companies, school systems and software publishers. The U.S. Department of Labor data indicates an 18% growth in total employment for this category through 2016. The Ohio Labor Market Information Services indicates a 15.5% increase in employment in this category through 2014.

Learning Outcomes

Graduates from this program are expected to achieve the following:

- The ability to install and configure microcomputer hardware and operating systems, and customize the operating system interface;
- An understanding of the operations of microcomputer hardware, firmware, and operating systems, along with the interrelationships among them;
- The ability to install, configure and maintain computer networking hardware, network operating systems and network services, including accounts and configuring resource security;

- The ability to install, configure and maintain Internet server software and services, including Web and FTP hosting services;
- An ability to provide Web page support by creating dynamic and interactive Web pages and programming scripts;
- An understanding of programming principles and logic, and its application to the development of computer programs to perform specified tasks;
- An ability to design, implement, and support the use of electronic spreadsheet applications in support of end users.
- An ability to provide support for operating systems both to the corporate entity and end-users alike.

Sample Program

First year

General education

- ENG 110, 111 and/or 112 (3-6)
- IPC 102 or 306 (3)
- BG Perspective (general education) elective (6)

Basic courses

- MIS 200, BAT 102 (6)
- MATH 112 or above (excluding MATH 213, 215, 216) (2-5)

Technical core

- CS 201 (3)
- CST 100, 120 (4)

Major

- CS 101 (3)

Second year

General education

- BG Perspective natural science elective (3-5)

Basic courses

- MATH 115 or STAT 200 (3)

Business courses

- ACCT 200 or 221 or BAT 205 or ENG 388 (3)

Technical core

- CST 102, 181, 275, 281 (10)

Major

- BUSE 265, 266, 269, 270, 276 (5)
- CS 280 (1)
- CST 135, 136, 252, 254 (8)

Computer Networking Specialist

Computer networking specialist install, configure and support the corporation's computer network. Graduates must be knowledgeable of local area networks (LAN), wide area networks (WAN), and the Internet system. Other key skills taught in the program include the ability to maintain hardware and software to keep a network available and operating securely and efficiently. The U.S. Department of Labor data indicates a 27% growth in total employment in this category through 2016.

Learning Outcomes

- Graduates from this program are expected to achieve the following:
- The ability to install and configure microcomputer hardware and operating systems, and customize the operating system interface;
- An understanding of the operations of microcomputer hardware, firmware, and operating systems, along with the interrelationships among them;
- The ability to install, configure and maintain computer networking hardware, network operating systems and network services, including accounts and configuring resources security;
- The ability to install, configure and maintain Internet server software and services, including Web and FTP hosting services;
- An ability to provide Web page support by creating dynamic and interactive Web pages and programming scripts;

(OVER)

- An understanding of programming principles and logic, and its application to the development of computer programs to perform specified tasks;
- An ability to accomplish network wiring and cabling tasks to including making cables and punch-down connections.

Sample Program

First year

BG Perspective (general education)
 ENG 110, 111 and/or 112 (3-6)
 IPC 102 or 306 (3)
 BG Perspective (general education) elective (3)

Basic courses

MIS 200, BAT 102 (6)
 MATH 112 or above (excluding MATH 213, 215, 216) (2-5)

Technical core

CS 201 (3)
 CST 100, 102, 120 (5)

Major

CST 141, 142, 143 (7)

Second year

BG Perspective (general education)
 BG Perspective (general education) natural science elective (3-5)
 BG Perspective (general education) elective (3)

Basic courses

MATH 115 or STAT 200 (3)

Business courses

ACCT 200 or 221 or BAT 205 or
 ENG 388 (3)

Technical core

CST 181, 275, 281 (9)

Major

CST 145, 285, and ECT 240 (9)

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 Computer Science Technology, please check the undergraduate catalog online at www.bgsu.edu/catalog/FIR/FIR36.html