

## Career Focus on ... **Computing & Information Technology**

### Are You...?

#### *A Problem Solver?*

IT Professionals are called on to diagnose and fix computers and networks malfunctioning for unknown reasons.

#### *A Creative Individual?*

CyberSecurity professionals must out-think hackers and create original fixes to bugs and viruses.

#### *A Curious Investigator?*

Forensic Investigators extract evidence from computers and storage devices that can crack criminal cases wide open.

### Do You Know...?

#### *How to Start?*

Massachusetts community college courses are between three to ten times cheaper than comparable University courses.

#### *Where you're going?*

You can start at a community college and, when you're ready, transfer your credits to many Massachusetts Universities.

#### *What to do with your degree?*

An Associate's Degree in Computing & Information Technology field will immediately qualify you for a good job.

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## Career Spotlight

### COMPUTER PROGRAMMING

Create programs and applications for computers, tablets, and phones

Median Annual Salary: \$71,380

Recommended Education: Computer Science

### HELP DESK TECHNICIAN

Troubleshoot hardware and software problems

Median Annual Salary: \$46,260

Recommended Education: Information Technology

### DATA ANALYSIS

Collect and analyze data; recommend solutions grounded in evidence

Median Annual Salary: \$77,740

Recommended Education: Business Intelligence

### COMPUTER FORENSICS INVESTIGATION

Examine electronic devices and systems; collect evidence of wrong doing

Median Annual Salary: \$58,260

Recommended Education: Computer Forensics

### GAME DEVELOPMENT

Develop game ideas and program virtual worlds

Median Annual Salary: \$43,180

Recommended Education: Computer Science

### CYBERSECURITY ANALYSIS

Defend computers and networks against viruses and cyber attacks

Median Annual Salary: \$75,660

Recommended Education: Information Systems

### NETWORK ADMINISTRATION

Ensure connectivity and communication for multiple devices in a given area

Median Annual Salary: \$69,610

Recommended Education: Information Science

### WEB DEVELOPMENT

Develop web presences; publish information and graphics

Median Annual Salary: \$75,660

Recommended Education: Information Architecture

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# Academic Focus on ... Computing & Information Technology

## What is Information Technology?

*Information Technology is the study of using computers, networks and personal devices to send, receive and store information. Degree programs in Information Technology offer skills in information architecture, systems administration, computer forensics, business intelligence, and information management. Most graduates are employed in the CyberSecurity, Data Analysis, Forensics, Networking, Technical Support, and Web Development fields.*

## What is Computer Science?

*Computer Science is the study of computing machines, software programming and design. Degree programs in Computer Science offer skills in logic and computation, system architecture, software design, and computer programming. Most graduates are employed in the Computer Programming, Artificial Intelligence, and Cyber Security fields.*

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## Program Spotlight

### COMPUTER PROGRAMMING

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
MassBay Community College (Wellesley)  
University of Massachusetts Boston

### CYBERSECURITY

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
Middlesex (Bedford, Lowell)  
No. Essex Community College (Haverhill, Lawrence)  
Quinsigamond Community College (Worcester)

### DATA ANALYSIS

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
No. Essex Community College (Haverhill, Lawrence)  
Quinsigamond Community College (Worcester)  
Roxbury Community College (Boston)  
University of Massachusetts Boston

### FORENSICS

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
Middlesex (Bedford, Lowell)  
No. Essex Community College (Haverhill, Lawrence)  
University of Massachusetts Boston

### GAME DEVELOPMENT

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
Quinsigamond Community College (Worcester)

### MOBILE APPLICATION DEVELOPMENT

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
No. Essex Community College (Haverhill, Lawrence)

### NETWORKING

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
Middlesex (Bedford, Lowell)  
No. Essex Community College (Haverhill, Lawrence)  
University of Massachusetts Boston

### TECHNICAL SUPPORT (HELP DESK)

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
MassBay Community College (Wellesley)  
No. Essex Community College (Haverhill, Lawrence)  
Quinsigamond Community College (Worcester)

### WEB DEVELOPMENT

Bristol Community College (Fall River, New Bedford)  
Bunker Hill Community College (Boston)  
MassBay Community College (Wellesley)  
No. Essex Community College (Haverhill, Lawrence)  
Quinsigamond Community College (Worcester)  
Roxbury Community College (Boston)

For more information about computing and information technology programs visit [www.batec.org](http://www.batec.org)