Career Focus on...

CyberSecurity

Introduction

- Are you interested in developing a skill set that relates to a variety of organizations in both the public and the private sectors?
- Would you like to gain the specialized skills necessary for a career in a quickly expanding industry?
- Would you be interested in using Information Technology (IT) skills to detect Internet fraud, theft, and abuse?

If you answered "yes" to these questions, you may want to consider a career in Cybersecurity.

Did You Know...?

- The growth of Internet crime such as identity theft, spamming, e-mail harassment, and illegal downloading will increase the demand for computer security experts.
- Working in cybersecurity helps IT professionals stay current with changes to software and operating systems.
- As the number of devices that connect to the Internet grows, so will the need for cybersecurity specialists.
- A certificate can be a first step towards earning an Associate's degree. Students who complete an Associate's degree at QCC may be able to transfer to a variety of other schools to further continue their education.

Cyber Security @ QCC

The CyberSecurity Certificate at QCC is designed to prepare graduates to work in the information technology field as Computer Support Specialists with an emphasis on cybersecurity. According to the Occupational Outlook Handbook, 2012-2013 Edition, employment of computer support specialists is expected to increase by 18 percent from 2010 to 2020, which is slightly faster than the average for all occupations. Demand for these workers will result as organizations and individuals continue to adopt the newest forms of technology.

This program prepares students to be Computer Support Specialists who understand both how operating systems and network technologies work and how they can be attacked. Upon completion of this certificate students will be able to prevent and respond to online threats from hackers and cybercriminals.

Career Options

COMPUTER SUPPORT SPECIALIST
Median Annual Salary: $46,260
Recommended Education: Some college
www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm

INFORMATION SECURITY ANALYST
Median Annual Salary: $75,660
Recommended Education: Bachelor's degree
www.bls.gov/ooh/computer-and-information-technology/information-security-analysts-web-developers-and-computer-network-architects.htm

NETWORK AND COMPUTER SYSTEMS ADMINISTRATOR
Median Annual Salary: $69,160
Recommended Education: Bachelor's degree
http://www.bls.gov/ooh/computer-and-information-technology/network-and-computer-systems-administrators.htm

COMPUTER HARDWARE ENGINEER
Median Annual Salary: $98,810
Recommended Education: Bachelor's degree
www.bls.gov/ooh/architecture-and-engineering/computer-hardware-engineers.htm

Worcester Area Employers

- AbleBridge
- AKUITY Technologies
- Atos
- City of Worcester
- Deloitte
- Federal Bureau of Investigation
- Hanover Insurance Group
- IBM
- Local schools, colleges, and universities
- Raytheon
- UMass Memorial Medical Center

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Next Steps

Wondering if CyberSecurity is right for you?

- Take a Career Assessment to match your interests with potential careers:
  www.qcc.mass.edu/t3/ort/sites.html#careerassess
- Research the web links on this *Career Focus* page, as well as links suggested online under Career Information: *www.qcc.mass.edu/t3/ort/sites.html#careerinfo*
- Conduct an Informational Interview with someone employed in the field. For more information on how to do this, review the Informational Interview links online:
  www.qcc.mass.edu/t3/ort/sites.html#infointerview
- Attend a Career Planning Session. For more information, and the current schedule, visit Career Academic Personal Success (CAPS) online:
  www.QCC.edu/services/academic-advising/career-academic-personal-success
- Speak with an Advisor:
  www2.qcc.mass.edu/advising/
- Speak with QCC Faculty who teach CyberSecurity courses.

Sources Used

Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2012-13 Edition:*

- Computer Support Specialist:
  www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm
- Information Security Analyst:
  www.bls.gov/ooh/computer-and-information-technology/information-security-analysts-web-developers-and-computer-network-architects.htm
- Network and Computer Systems Administrator:
  www.bls.gov/ooh/computer-and-information-technology/network-and-computer-systems-administrators.htm
- Computer Hardware Engineer:
  www.bls.gov/ooh/architecture-and-engineering/computer-hardware-engineers.htm

Quinsigamond Community College, Online Course Catalog:

- Computer Systems Engineering Technology Certificate: CyberSecurity:
  www.qcc.edu/academics/technology/computer-systems-engineering-technology/cybersecurty

Professional Associations

- Association for Computing Machinery:
  www.acm.org
- Computing Technology Industry Association:
  www.comptia.org
- IEEE Computer Society:
  www.computer.org
- Information Systems Security Association:
  www.issa.org
- Information Technology Association of America:
  www.techamerica.org

Positions Entered by QCC Graduates

- Computer Repair Tech
- Desktop Support Specialist
- IT Tech
- Microsoft Dynamics CRM Developer
- Tier-One Computer Tech

Employment, Co-op, Internship, or Service Learning Opportunities

Contact the Career Placement Office:
www.qcc.edu/pages/Career_Placement.html

Possible Transfer Schools

- Anna Maria College
- Assumption College
- Fitchburg State University
- Johnson & Wales University
- Northeastern University
- UMass Amherst
- UMass Lowell
- Westfield State University
- Worcester State University

Specific Transfer Information

- Start at the QCC Transfer web site:
  www.qcc.mass.edu/transfer
- Make an appointment online with the Transfer Advisor: *www.qcc.mass.edu/transfer/calendar*
- Email questions to:
  transfer@qcc.mass.edu

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