Advancing your Career…Change your Life
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Bachelor of Science Degree
Cyber Security

“Cyber Security jobs are expected to grow 12 times faster than the overall job market. This degree will provide you with the skills and knowledge to be part of the cyber security protection and prevention workforce and open up a lifetime of professional opportunities.”

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Careers in Cyber Security
Cyber Security professionals work in a variety of settings dealing with the ever changing cyber threats worldwide. Cyber Security professionals hold a variety of positions including:

- Computer/Systems Security Specialist
- Cyber Security Lead
- Information Technology Forensic Analyst
- Ethical Hacker
- IT Security/Risk/Compliance Officer
- Data Security Analyst
- Cryptanalyst
- Network Security Specialist
- Web Application Developer
- Chief Information Security Officer

See www.CharterOak.edu/cjobs for brief descriptions of these positions.

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Looking for other ways to maximize your computer knowledge and skills?
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Learn more today at www.CharterOak.edu

Contact Us
www.CharterOak.edu/Cybersecurity // admissions@charteroak.edu // 860-515-3701
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Advancing the nation’s workforce
one graduate at a time

12/2016
**Cyber Security Major**

**The Program**

You’ve heard about the data breaches at major retailers and banks. The “hacked” list keeps getting longer every day. Do you want to be part of the rapidly expanding solution to these and other cyber crimes? Charter Oak has exactly the right program for you with our new Bachelor of Science degree in Cyber Security. Arm yourself with the skills, knowledge, and abilities to be part of the cyber security protection and prevention workforce today!

Developed by experts in this critical Information Technology field, Charter Oak’s new online bachelor’s degree in Cyber Security prepares students for success in IT Security, Cyber Security, Information Assurance, and Information Systems Security. Security Specialists, Data Security Analysts, and Web Application Developers are critical to facing the challenges of the entire cyber security landscape. Our program is structured to provide a professional education with a comprehensive curriculum that is designed for students with a background in computers.

**The Cyber Security Major Curriculum**

- **Academic Requirements**
  - Bachelor of Science Degree
    - General education: Minimum of 40 credits
    - Major: Minimum of 45 credits
    - Elective credits: To bring the total to 120 credits
    - 30 credits must be at the upper level
    - At least 60 of the 120 credits need to be in liberal arts subjects
  - Academic Residency
    - Cornerstone: All students must successfully complete the three-credit Cornerstone Seminar (IDS 101) usually during their first term.
    - Capstone: Students preparing to graduate with a bachelor’s degree must complete the Cyber Security Capstone at Charter Oak State College with a grade of "C" or higher.

- **Major Requirements:**
  - Introduction to Computer Science
  - Networking and Data Communications
  - Fundamentals of Information Systems Security
  - Legal Issues in Information Security
  - Managing Risk in Information Systems
  - Security Policies & Implementation
  - Auditing IT Infrastructure for Compliance
  - Access Controls, Authentication and PKI
  - Fundamentals of Network Security
  - Systems Forensics, Investigations and Response
  - Hacker Techniques, Tools and Incident Handling
  - Security Strategies for Web Apps and Social Networking
  - Cyber Security Capstone
  - Two of the following:
    - Security Strategies in Windows OS/Applications
    - Security Strategies in Linux OS/Applications
    - Cyberwarfare

Graduates with a degree in Cyber Security will have learned to:
- Explain the landscape, key terms, and concepts related to the many layers of information systems security
- Explore and explain the fields of digital forensics and cyber policy analysis
- Create policies and standard operating procedures for organizations that are ethically, morally, and legally sound
- Identify and critically assess issues and concepts related to the protection of information systems
- Use risk management principles to assess threats, vulnerabilities, countermeasures, and impact contributors of risk in information systems
- Illustrate and explain fundamental architectures of networks and the Internet
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The median annual wage for Information Security Analysts in 2012 was $86,170. Jobs in this field are expected to grow 37% between now and 2022.

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Successful candidates for the Bachelor of Science degree in Cyber Security:

- Have an aptitude for information technology
- Should preferably have a background in and/or be familiar with computers

**Academic Residency**

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