

FLEXIBLE ONLINE BACHELOR'S DEGREE COMPLETION PROGRAMS



Degrees Without Boundaries

**Bachelor of Science Degree
Cyber Security**



Advancing the nation's workforce
one graduate at a time

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 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.

Bureau of Labor Occupational Outlook Handbook, 2014-2015

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 and 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





The Cyber Security Major Curriculum

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



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

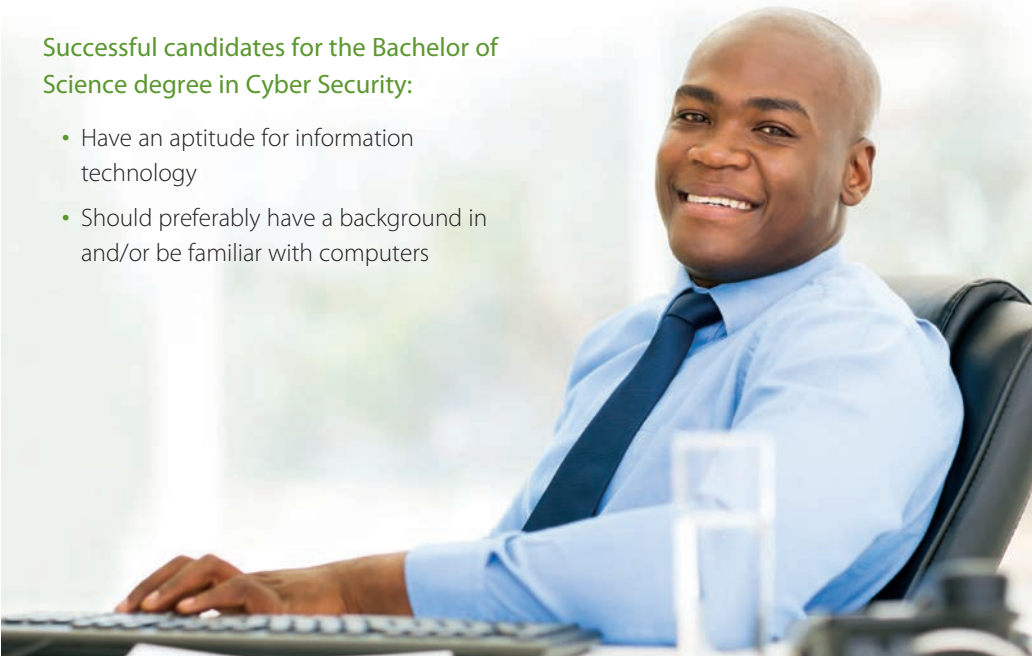
Academic Residency

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.

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



“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.”

Frank J. Monaco, Colonel (U.S. Army Retired), Cyber Security Teaching Faculty Member,
Charter Oak State College

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/csjobs for brief descriptions of these positions.

Looking for other ways to maximize your computer knowledge and skills?

Check out our programs for Information System Studies, Project Management, or Health Information Management

We offer an array of workforce relevant programs designed to help you advance your career in a variety of fields.

Learn more today at www.CharterOak.edu

Advance your Career...Change your Life

Charter Oak State College is Connecticut's public online college offering associate and bachelor's degree completion programs in a number of high-demand fields including Cyber Security, Health Information Management, Health Care Administration, as well as many other workforce relevant programs of study. Our students complete degrees by taking online courses and combining other sources of credit. Our institution is accredited by the New England Association of Schools and Colleges.



Feel confident knowing that our professional Admissions Counselors and Academic Advisors are available every step of the way!

Contact Us

www.CharterOak.edu/Cybersecurity // admissions@charteroak.edu // 860-515-3701

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A Connecticut State College accredited by the New England Association of Schools and Colleges

Charter Oak State College complies with all applicable federal and state laws regarding nondiscrimination and affirmative action