

Cyber threats are growing. So are your career opportunities.



Put the future of your cybersecurity career in the hands of a respected online education leader.



 EXCELSIOR
COLLEGE®

Everything you need to succeed.

Excelsior College offers many advantages, resources and services to make your educational experience a successful one. We support you every step of the way as you earn your degree or certificate.

- **Maximum credit transfer from prior college learning, military, and workplace training**
- **Flexible 8-week online courses**
- **Cutting-edge technology and hands-on experience**
- **Distinguished faculty from leading schools throughout the world, many pioneers in their fields**
- **24/7 access to online services, including our extensive virtual library, study buddy program, and free tutoring**
- **Personalized support services, including academic and career counseling**
- **Financial aid and payment plan options available**

You're the key to cybersecurity.

Cyberspace has become the new battleground against crime and terrorism—and you're needed to join the fight against an increasingly sophisticated and dangerous foe.

As a Center of Academic Excellence in Cyber Defense Education, Excelsior College has risen to the challenge with its nine totally online programs in cybersecurity on the undergraduate and graduate levels. With a cybersecurity education from Excelsior behind you, there's a great future ahead of you, deploying your skills to defeat cyber threats at every level.

According to the Bureau of Labor Statistics, employment of computer network, systems and database administrators—which includes cybersecurity professionals—was projected to grow 23 percent from 2008 to 2018, much faster than the average for all occupations. And, according to CNN, an estimated 30,000 jobs in cybersecurity alone are being created to meet this rapidly emerging and alarming threat. Cybersecurity is a growing industry with salaries from \$50,000 to \$120,000 a year and companies such as AT&T, WellsFargo (WFC), Citigroup, Microsoft (MSFT), and Boeing (BA) are on the lookout for staff.

Join the digital defense team.

We've got a program just for you.

Whether you're an IT professional, government employee or contractor, law enforcement professional or military servicemember, Excelsior has a flexible and affordable cybersecurity program that's right for you.

Excelsior's multidisciplinary curriculum features broad coverage on strategies, policy, ethics and legal compliances, operational processes, and cybersecurity techniques and technologies. Our courses go far beyond theory, giving you the know-how and leadership skills you need to succeed.



Excelsior College has nine programs that are certified by the Department of Homeland Security and National Security Agency (NSA) to meet the Center of Academic Excellence in Cyber Defense Education standards.



Undergraduate Programs

UNDERGRADUATE CERTIFICATE IN CYBERSECURITY

Excelsior's Undergraduate Certificate in Cybersecurity is ideal if you're working in the law enforcement and crime prevention sectors. This certificate comprises introductory courses in cybersecurity technology and fundamental knowledge in cybercrime investigation. Its curriculum focuses on the techniques, policies and operational procedures that detect threats and secure information. You'll be required to complete the capstone course at Excelsior College. Approved courses from other institutions may be accepted in transfer for your remaining requirements.

Career Paths

With this certificate, you can pursue careers in cyber security administration, analysis, incidence response, forensic analysis and vulnerability analysis.

Certificate Credit Requirements

- **Introduction to Cybersecurity**
- **Computer System Security Fundamentals**
- **Cybersecurity Defense in Depth**
- **Large Scale Cybercrime and Terrorism**
- **White Collar Crime**
- **Cybersecurity Investigations and Case Studies (Capstone)**

Total: 16 Credits

“Every day, the media reminds us of threats aimed at stealing, damaging, or manipulating our electronic data/information for the benefit of the ‘attacker.’ Identifying information assets and having a thorough understanding of the threats is critical for organizations of all sizes. Being able to analyze these threats and then design tactical and strategic defenses to these threats is an exciting career field that has a tremendous future in the Information Age. Excelsior's new certificate and degree programs in cybersecurity provide a rigorous education in which students learn to integrate theories and concepts with hands-on experience in order to prevent, detect, counter, and recover from cyber threats at every level.”

Ken Desforges

MSc, PMP, CISSP-ISSMP

Director Information Systems

Excelsior Graduate: BS in Information Technology, 2010

Join the Digital Defense Team. Visit excelsior.edu

BACHELOR OF SCIENCE IN CYBERSECURITY

The bachelor's degree in cybersecurity provides students with technical skills through labs, simulations, and other exercises. Students in this program become proficient with national security technologies and processes, and learn how to detect, analyze, and respond to cyber attacks on computer networks.

Career Paths

After earning this degree, you may work for corporations or law enforcement agencies investigating cyber crimes, doing penetration testing, conducting risk and vulnerability assessments, malware reverse engineering, software security and implementing cybersecurity policies and procedures.



Degree Credit Requirements

Cybersecurity Component

- C++ Programming
- Microprocessors
- Network and Applications Security
- Computer Architecture
- Operating Systems
- Overview of Computer Security
- Secure Mobile and Cloud Computing Environments
- Reverse Engineering
- Cybersecurity Defense in Depth
- Cyber Attacks and Defenses
- Computer Forensics
- Governance, Legal, and Compliance
- Security Focused Risk Management
- Secure Software Development and Analysis
- System Administration
- Systems Security Engineering
- Capstone

Arts and Sciences Component (60 credits)

- Communications
- Ethics
- Humanities
- Social Sciences/History
- Natural Sciences/Mathematics

Free Elective Component (9 credits)

Total: 120 Credits

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

with a Cybersecurity Technology Concentration

If you already hold a position or an associate degree in information technology, Excelsior's bachelor's degree program with a concentration in cybersecurity technology can prepare you to be a leader in protecting vital data assets. The curriculum focuses on ethics and legal compliances, operational processes, techniques, and technologies that secure and defend information and information systems.

Career Paths

As a graduate of this program, you will have the necessary skills to be successful at positions in system management security, administration security analysis, mobile computing configuration and security, cloud computing applications, and fighting cybercrime.

Degree Credit Requirements

Information Technology Component

- **Object-Oriented Programming**
- **Computer Systems Architecture**
- **Operating Systems**
- **Data Communications and Networking**
- **Database Concepts**
- **Overview of Computer Security**
- **Project Management**
- **Web Design and Development**
- **System Administration**
- **Human-Computer Interaction**
- **Integrated Technology Assessment (Capstone)**

Cybersecurity Technology Concentration

- **Network and Application Security**
- **Organizational Information Security**
- **Computer Forensics**
- **Cyber Attacks and Defenses**
- **Business Continuity**

Arts and Sciences Component (60 credits)

- **Communications**
- **Ethics**
- **Humanities**
- **Social Sciences/History**
- **Natural Sciences/Mathematics**

Free Elective Component (12 credits)

Total: 120 Credits

Dual Degree Programs

Join the Digital Defense Team. Visit excelsior.edu

BS IN INFORMATION TECHNOLOGY with concentration to MBA with concentration <.....

The fast-growing cybersecurity sector not only needs technicians, but expert managers. This dual degree program provides working adults with a convenient way to develop advanced technical and managerial skills at once.

Career Paths

With these degrees you can work in managerial roles that require an understanding of computer networking and cybersecurity defense systems, and the business processes that they support. You can pursue careers within private and nonprofit sectors, and federal agencies.

Degree Credit Requirements

Arts and Sciences Component (60 credits)

- Communications
- Ethics
- Humanities
- Social Sciences/History
- Natural Sciences/Mathematics

Free Elective Component (6 credits)

Includes BUS 351 Marketing Concepts and Applications

Information Technology Component

- Object-Oriented Programming
- Computer Systems Architecture
- Operating Systems
- Data Communications & Networking

- Web Design & Development
- Human-Computer Interaction
- Database Concepts
- Overview of Computer Security
- Project Management
- System Administration
- Integrated Technology Assessment (Capstone)

Cybersecurity Technology Concentration

- Network and Application Security
- Organizational Information Security
- Computer Forensics
- Cyber Attacks and Defenses
- Business Continuity

Bridge Component

- Business Communications
- Global Business Environment

Graduate Course Component

- Accounting for Managers
- Human Resources Management
- Managerial Finance
- Information Technology
- Leadership
- Change Management
- Strategy and Policy (Capstone)

MBA Concentration in Cybersecurity Management

- Ethics, Legal, and Compliance Issues in Cybersecurity
- IT Risk Analysis and Management
- Information Assurance

Total: 150 Credits

BS IN NUCLEAR ENGINEERING TECHNOLOGY

to MBA with a concentration in
Cybersecurity Management

This dual degree program allows students to pursue disparate interests through one course of study. It encompasses functional areas of nuclear engineering technology and systems operation, and topics in business administration and cybersecurity management.

Career Paths

With these degrees, you'll be able to pursue careers in cybersecurity engineering and analysis, cyber-defense investigations, and network security consulting.

Degree Credit Requirements

Nuclear Engineering Technology Component

- **Electrical Theory**
- **Computer Applications**
- **Fundamentals of Reactor Safety**
- **Material Science**
- **Health Physics/Radiation Protection**
- **Radiation Measurement Lab**
- **Plant Systems Overview**
- **Reactor Core Fundamentals**
- **Heat Transfer**
- **Fluids**
- **Integrated Technology Assessment (Capstone)**

Arts and Sciences Component (60 credits)

- **Communications**
- **Ethics**
- **Humanities**
- **Social Sciences/History**
- **Natural Sciences/Mathematics**

Free Elective Component (10 credits)

Includes BUS 351 Marketing Concepts and Applications

Bridge Component

- **Business Communications**
- **Global Business Environment**

Graduate Course Component

- **Accounting for Managers**
- **Human Resources Management**
- **Managerial Finance**
- **Information Technology**
- **Leadership**
- **Change Management**
- **Strategy and Policy (Capstone)**

MBA Concentration in Cybersecurity Management

- **Ethics, Legal, and Compliance Issues in Cybersecurity**
- **IT Risk Analysis and Management**
- **Information Assurance**

Total: 154 Credits

BS IN INFORMATION TECHNOLOGY to MS IN CYBERSECURITY ◀.....

Students learn how to defend corporate, nonprofit, or government computer networks from predators in this dual degree program that provides working adults with a streamlined way to earn both degrees at once.

Career Paths

With these degrees, you'll be equipped to gain employment preventing cyber criminals from accessing digital assets and sensitive information within an organization. Your work may involve software engineering, risk analysis, offensive and defensive security, disaster recovery planning, data encryption, and related activities.

Degree Credit Requirements

Information Technology Component

- Object-Oriented Programming
- Computer Systems Architecture
- Operating Systems
- Data Communication & Networking
- Web Design & Development
- Human-Computer Interaction
- Database Concepts
- Overview of Computer Security
- Project Management

- System Administration
- Integrated Technology Assessment (Capstone)

Arts and Sciences Component (60 credits)

- Communications
- Ethics
- Humanities
- Social Sciences/History
- Natural Sciences/Mathematics

Free Elective Component (9 credits)

Bridge Component

- Information Assurance

Graduate Course Component

- Digital Crime Prevention and Investigation
- Communications and Network Security
- Ethics, Legal & Compliance Issues in Cybersecurity
- Information Assurance
- IT Risk Analysis & Management
- Cyber Attacks and Defenses
- Advanced Networking
- Project Management
- Capstone Project in Cybersecurity

Total: 150 Credits

Graduate Programs

MASTER OF SCIENCE IN CYBERSECURITY

Excelsior's Master of Science in Cybersecurity is designed for midcareer professionals who have the goal of supervising or being closely involved with cybersecurity operations. Our program will provide you with the advanced techniques and knowledge to safeguard an organization's cyber assets. The curriculum focuses on prevention, detection, countering, and recovery from cyber incidents.

Career Paths

With an MS in Cybersecurity from Excelsior, you can pursue careers in system administration; security administration; defensive and offensive positions; specialized areas including server configuration, database management, and account management; security assessment; business continuity; and disaster planning and recovery.

Degree Credit Requirements

- Digital Crime Prevention and Investigation
- Communications and Network Security
- Ethics, Legal, and Compliance Issues in Cybersecurity
- Information Assurance
- IT Risk Analysis and Management
- Cyber Attacks and Defense
- Advanced Networking
- Project Management
- Capstone Project in Cybersecurity

Total: 30 Credits

“The one thing I took away from the MS in Cybersecurity is: be consistent with the overall objective of the security within the organization that's doing it. Too often we have fragmented security. We do a little bit of security here, and a little bit of security there. Consistency ensures the layering that's required for in-depth protection.



“The best aspect of the online experience at Excelsior was the inclusivity of the discussion groups, which simulated the paradigm of collaboration in the industry. Because we must be able to collaborate or the security will fail.”

Robert Norris

Information System Security Analyst
Excelsior Graduate: BS in Liberal Studies, 2011
MS in Cybersecurity, 2013

MASTER OF BUSINESS ADMINISTRATION

with a Cybersecurity Management Concentration

Excelsior's MBA with a Cybersecurity Management Concentration will give you a solid business foundation along with an overview of cybersecurity management. Using a multidisciplinary approach, this MBA concentration is designed to provide you with a broad analytical framework for evaluating and solving cybersecurity problems.

With our updated MBA, you can waive up to 15 credits of foundation requirements through exams or relevant undergraduate courses you've taken. You can apply a total of 24 credits, including graduate-level credit you've already earned, toward the 48 credits required for graduation.

Career Paths

Graduates of this program will be prepared for leadership positions as chief information officers, chief security officers, and senior executive staff members. You'll also be ready to perform vital support functions in policy, legal, contracts and budget, risk management, and cybersecurity compliance.

Degree Credit Requirements

Foundation Requirements (0–15 credits, waivable)

- **Ethics**
- **Economics**
- **Marketing**
- **Organizational Behavior**
- **Quantitative Analysis**

Core Courses (24 credits, required)

- **Accounting for Managers**
- **Business Communications**
- **Global Business Environment**
- **Human Resource Management**
- **Information Technology**
- **Leadership**
- **Change Management**
- **Strategy and Policy (Capstone)**

*Cybersecurity Management Concentration
(9 credits, required)*

- **Ethics, Legal, and Compliance Issues in Cybersecurity**
- **IT Risk Analysis and Management**
- **Information Assurance**

Total: 36–51 Credits

GRADUATE CERTIFICATE IN CYBERSECURITY MANAGEMENT

Our graduate certificate program is designed for mid-career professionals who wish to help meet the challenges posed by increasing cyber threats. The curriculum evaluates strategies for societal responses to threats at the enterprise, national and global levels. You may be able to transfer up to 8 credits into the certificate program, and you must complete the capstone course at Excelsior College.

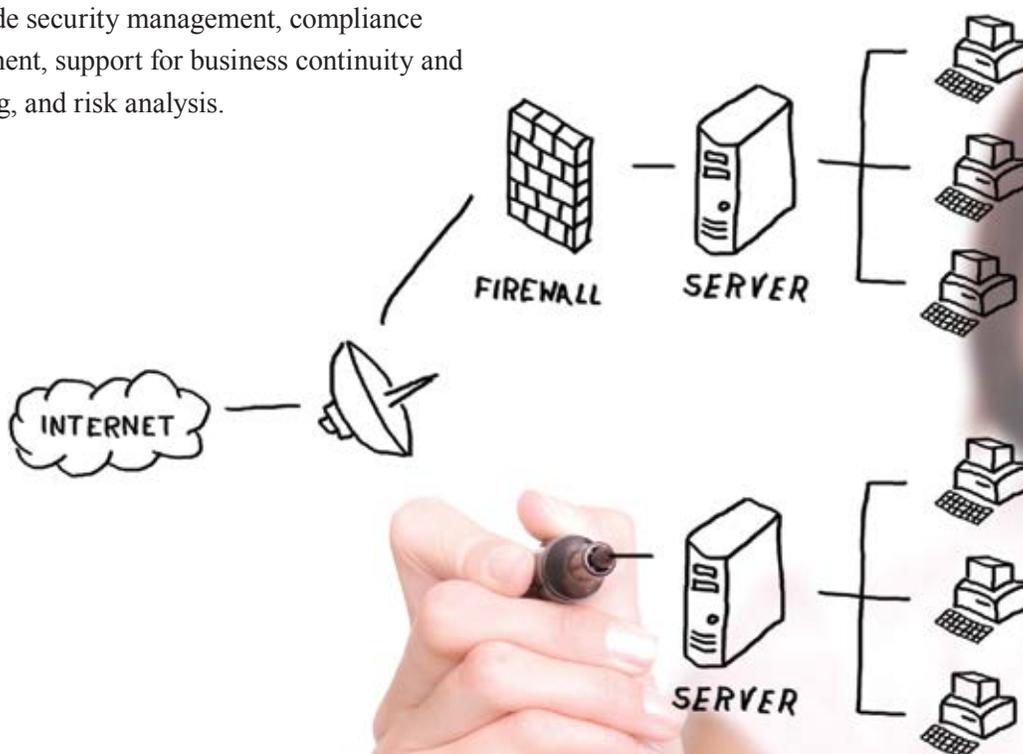
Career Paths

Your career opportunities with an Excelsior graduate certificate include security management, compliance and risk assessment, support for business continuity and disaster planning, and risk analysis.

Certificate Credit Requirements

- Ethics, Legal, and Compliance Issues in Cybersecurity
- Information Assurance
- IT Risk Analysis and Management
- Security Management Awareness
- Special Topics in Cybersecurity (Capstone)

Total: 16 Credits





Study with an accredited **WORLD LEADER.**

As a world leader in distance education, Excelsior College has helped more than 155,000 busy working adults earn their degrees since 1971.

Our flexible, affordable online programs empower you to fit learning into your life, studying whenever and wherever you choose. And you earn your degree from an accredited college: Excelsior College is accredited by the of the Middle States Commission on Higher Education.



**CERTIFIED
CYBERSECURITY
PROGRAMS**

Call 888-647-2388, ext. 27
or visit excelsior.edu

Excelsior College is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104, telephone: 267-284-5000. The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation. All the College's academic programs are registered (i.e., approved) by the New York State Education Department.

The National Security Agency (NSA) and the Department of Homeland Security designated Excelsior College as a National Center of Academic Excellence in Cyber Defense Education, a recognition which extends through 2019.

Excelsior College is a Title IV-eligible institution offering federal student aid to students who qualify in course-based programs. Stand-alone exam-based options and certificate programs are not eligible.

Excelsior College does not discriminate on the basis of age, color, religion, creed, disability, marital status, veteran status, national origin, race, gender, or sexual orientation in the educational programs and activities which it operates.

