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# Information Assurance and Cybersecurity

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## Bachelor of Science in Information Technology

Your passion for IT can help make organizations more efficient and secure. The online Bachelor of Science in Information Technology, Information Assurance and Cybersecurity at Capella can help prepare you to address IT needs in the fields of banking, commerce, telecommunications, health care and national security. You can build practical experience through Project Ares, a simulated training environment designed to mimic real-world threats. You can also develop the interpersonal skills you need to thrive in wide range of business environments.



## At a glance

- Online
- FlexPath available
- 8–13 General education courses
- 9 Core courses
- 8 Specialization courses
- 5–9 Elective courses
- 1 Capstone
- 180 Total quarter credits
- 135 Max transfer credits

**FlexPath lets you finish the degree you started, with a bachelor's in IT in 22 months for \$20,000.**

*\*Based on fastest 25 percent of students. Your program length and cost will vary by transfer credits, the per-session cost, and how quickly you complete courses. Books, supplies, and other fees apply.*

**Is FlexPath right for you?**

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**× Courses and skills**



- You'll need to complete **8–13** general education courses, **nine** core courses, **eight** specialization courses, **5–9** elective courses and **one** capstone

[View all courses](#)



**Melissa Zgola, EdD**

Program Director,  
Information  
Technology

[Meet your faculty](#)

× **Show course with description**

IT4070 *	Cyber Defense and Countermeasures	6 quarter credits
IT4071 *	Cyber Attacks and Ethical Hacking	6 quarter credits
IT4075 *	Computer Forensics	6 quarter credits
IT4076 *	Security Management and Policies	6 quarter credits
IT4080 *	Operating Systems and Application Security	6 quarter credits
IT4575 *	Linux Operating Systems	6 quarter credits

*\*Course has prerequisite(s). See catalog for details.*



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explore online self-paced learning, experience the courseroom and view a sample assessment.

[Take our FlexPath Trial Course](#)

## What you'll learn

This specialization develops your ability to acquire and apply key processes, tools, technologies and methods for securing an enterprise. You'll learn how to evaluate and apply security policies, social engineering, access control, authentication, perimeter security, disaster recovery, business continuity, risk management, incident response, viruses, malware, spam, encryption, and other infrastructure security techniques. In addition to information assurance and cybersecurity expertise, this specialization helps you acquire the business, interpersonal and communication skills you need to influence internal decision-making and overall organizational effectiveness.

On successful completion of this program, you should be able to:

- Design technical strategies for mitigating risks to information assets
- Conduct a business impact analysis and disaster recovery plan
- Design a secure network architecture for an organization
- Balance risk and benefit associated with information assets



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## approval process

- Validate accuracy and integrity of information assets through audit, management and models
- Communicate effectively

Review the Capella [career exploration guide](#) to learn more about this program and career paths to explore.

### Program eligible for Experiential Learning

Use your experience: bring your real-world projects into the courseroom to complete assignments and demonstrate what you're learning.

[Learn more >>](#)

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## + Tuition and learning format

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## + Scholarships and savings

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## + Accredited and recognized

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## + How to apply

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## × Career exploration

### What can you do with a BS in IT Information Assurance and Cybersecurity degree?

Your education can help you reach your professional and personal goals. While Capella cannot guarantee that a graduate will secure any specific career outcome, such as a job title, promotion or salary increase, we encourage you to explore potential jobs and employment settings. Here are some ideas and examples for a graduate with a Bachelor of Science in Information Technology, Information Assurance and Cybersecurity.

#### Job titles to explore

- Security manager
- Information security analyst
- Security analyst
- Security engineer
- Information assurance analyst
- Systems engineer
- Information assurance engineer
- Network engineer
- Network security engineer
- Software engineer

#### Employment settings to explore

- Information technology consulting firm
- Insurance firm
- Land-based or online college or university
- Corporation
- Nonprofit organization
- Health care organization
- Global technology company
- Bank or financial firm
- Government – local, state, federal



**Apply now**

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#### AREAS OF STUDY

- Business
- Counseling & Therapy
- Education
- Health sciences
- Information technology
- Nursing
- Psychology
- Social work and human services

#### ABOUT US



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Mission and leadership

Tuition and fees

Tuition and financial aid policies

University catalog

University fact sheet

### INFORMATION FOR

Accessibility

Alumni association

Careers at Capella

Commencement

Degree verification

Disability services

Employers

Military

News and media

Professional licensure disclosures

Transcripts

Undergrad honors pathway

Experiential learning

### LEGAL

HEERF II reporting

HEERF III reporting

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Cost of Attendance Disclosure

Legal and regulatory information

Massachusetts disclosures

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