A Career Pathway that makes an IMPACT

- Defeating cybercriminals who present the greatest challenge to every citizen, company and government in the world
- Using and creating new technologies in a team effort to thwart cyberattacks
- Contributing to the industry of your choice: finance, health, transportation, energy, fashion, social media, and marketing
- Quickly evolving field so you'll never be bored
- Multiple types of positions:
  Cybersecurity Analyst
  Software Developer
  Penetration and Vulnerability tester
  Network or Systems Engineer
  Information Security Analyst/Engineer

Why a Career in Cyber Security?

- Dynamic career pathway
- High demand for professionals
- Highest starting salaries
- Nationally – 744,000 jobs
- Statewide – 36,000 jobs

Get In Touch

Contact your advisor to learn more

Contact Us

For an Undergraduate Certificate
in Cyber Security
Contact: Teresa Perez at mtperez@fau.edu

For a Graduate Certificate
in Cyber Security
Contact: Jean Mangiaracina at
jmangiar@fau.edu

To learn about the Cyber Security initiative
Contact Dr. Nancy Romance at
romance@fau.edu
or call Judy Kaczmarek at 561-297-3795

Address

777 Glades Rd, Boca Raton, FL 33431

www.fau.edu/cybersecurity

CYBER SECURITY

FAU
COLLEGE OF ENGINEERING & COMPUTER SCIENCE
Florida Atlantic University

How to Prepare for a Career in Cyber Security at FAU?

Graduate Cyber Security Certificate Program – 12 Credits Computer Science Track

Students must take three courses from the Computer Science (CS) Cyber Security track. Students must take one additional course from either the CS track or from the Mathematical track.

College of Engineering and Computer Science
Elective Courses – List updated periodically

Computer Science (CS)
CDA 5326 Cryptographic Engineering
CIS 5371 Practical Aspects of Modern Cryptography
CIS 6370 Computer Data Security
CIS 6375 Distributed Systems Security
COT 6427 Secret Sharing Protocols
COT 6930 Computational Algorithms on Encrypted Data
CTS 6319 Cyber Security: Measurement and Data Analysis

College of Science – Mathematical Sciences (MS)
MAD 5474 Introduction to Cryptology and Information Security
MAD 6478 Cryptanalysis
MAD 6607 Coding Theory
MAS 6217 Number Theory and Cryptography

Undergraduate Cyber Security Certificate Program – 12 Credits Computer Science Track

Students must take the CS core course, and, then take two 3-credit courses from the CS elective course list and one 3-credit course from the CS, IT or MS elective course lists. All four courses must be completed with a grade of "C" or better.

College of Engineering and Computer Science
Core Course
CNT 4403 Foundations of Cybersecurity

Computer Science (CS)
Elective Courses – List updated periodically
CAP 4623 Trustworthy Artificial Intelligence
CDA 4321 Introduction to Cryptographic Engineering
CIS 4213 Cyber Physical Systems Security
CIS 4367 Operating Systems Security
CIS 4634 Applied Cryptography
COP 4665 Mobile Applications
COP 4808 Full Stack Web Development
CNT 4411 Network and Data Security

College of Business – Information Technology (IT)
Elective Courses
ISM 4320 Introduction to Cybersecurity
ISM 4323 Management of Information Assurance and Security
ISM 4324 Computer Forensics

College of Science – Mathematical Sciences (MS)
Elective Courses
CAP 3786 RI: Introduction to Data Science
MAD 4605 Introduction to Coding Theory
MAP 4190 Mathematics of Cybersecurity
MAS 4206 Mathematics for Cryptography

The Department of Labor Statistics projects employment of Information Security Analysts to grow 35 percent from 2021 to 2031, much faster than the average for all occupations.

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The Future of Cyber Security

Cyber security is a dynamic career pathway. Everywhere around us we see an increasing need for a well-prepared Cyber security workforce. It is estimated that, nationally, there are over 744,000 jobs available, and that number is projected to increase. With such a large demand, there are also many exciting opportunities to explore new technologies, engage in creative problem solving with an analytical mindset, work in just about any industry (e.g., national defense, finance and banking, health care and medicine, energy, and fashion), and, equally exciting, work just about anywhere in the world.

Cyber security is one of the fastest growing and highest paying career fields for the next decade. Those who enter the cyber security workforce will be on the forefront in protecting all aspects of our daily lives - our cell phones and personal computers, our increasing use of digital technologies, our need for power to operate these devices – and so much more - from the ever-increasing threat of cyber criminals whose damage is estimated to be ~7 trillion dollars by 2025.

Both industry and government are looking for a diverse group of cyber professionals including women and underrepresented populations who are interested in pursuing this career pathway upon completion of their BS and/or MS degree and a cybersecurity certificate in FAU's exciting program of study.