

# MASTER'S PROGRAMS IN CYBER SECURITY

Our master's degree programs in cyber security provide an experiential learning-rich curriculum tailored to your interests and industry's needs. The programs offer personalized capstone options and a large number of elective courses. Flexible course scheduling within our programs enables you to start taking classes during either fall or spring semester.

## MASTER OF SCIENCE IN CYBER SECURITY

Our research-intensive degree program offers two capstone options (thesis or project) for you to work on cyber security research projects under the guidance of a faculty research mentor. This program helps you develop skills to investigate cyber security issues, discover new cyber security knowledge and present your research to professionals in the industry or academia. After completing this program, you'll be prepared to continue your research and development in cyber security areas or work in industry, practicing learned professional skills.

For more information, go to [utoledo.edu/engineering/graduate-studies/cyber.html](https://utoledo.edu/engineering/graduate-studies/cyber.html).

## MASTER OF CYBER SECURITY

Our program will train you with the latest technology trends in cyber security through a combination of core and elective courses. The capstone course, Experiential Learning in Cyber Security, provides you with opportunities to learn about real-world cyber-attacks and design defense strategies through The University of Toledo's Cyber Range. Guided by UToledo IT security professionals, the capstone course will help you develop the competencies you need to work as a cyber security professional in a rapidly evolving IT world.

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### MASTER'S PROGRAMS IN CYBER SECURITY DEGREE REQUIREMENTS (30 credit hours)

Our programs are structured to provide a central core of engineering courses, engineering and non-engineering electives and flexible capstone options.

ENGINEERING CORE:	ENGINEERING ELECTIVES:	NON-ENGINEERING ELECTIVES:	CAPSTONE OPTIONS:
Three core courses that cover the security of the computer system, the network system and the broader cyberspace	Courses from engineering that are needed to develop depth in cyber security areas	Courses with broader societal perspective to provide breadth in cyber security areas	Thesis, project or experiential learning in cyber security course, depending on the program

## BENEFITS

Cyber security professionals are in high demand locally, nationally and globally, and the employment sector is projected to grow significantly within the next decade. Cybersecurity Ventures predicts there will be 3.5 million unfilled cyber security positions globally by 2021. Cyber security professionals are employed in wide-ranging professional areas such as professional services, finance, manufacturing, data automation, healthcare and defense. Your training through one of our master's programs in cyber security will prepare you to succeed in this evolving technical environment.

A master's degree can boost your earning potential and lead to opportunities such as:

- Cyber security researcher
- Cyber security developer
- Security consultant
- Penetration tester
- Information security analyst
- Information security manager
- Chief information security officer
- Security administrator



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