

TECHNOLOGY PROFESSIONS

Cybersecurity

Make your opportunity.

Cybersecurity experts use their fundamental understanding of hardware, software, operating systems, networks and the internet to protect and secure the data of organizations large and small.

Here, you'll learn how to examine operating systems and networks, as well as the protocols required to navigate, use and manage security technologies. We strive to give our students insight into the legal, social and political dynamics of the cyber universe.

Trocaire is the only school in Western New York that offers Cybersecurity as an associate degree program. Additionally, we're also the only CompTIA-authorized academy in the area, offering certifications that are applicable across a wide variety of different platforms and systems.

What does it take to succeed in this field?

Cybersecurity experts are resourceful and tenacious individuals committed to problem-solving and lifelong learning.

What careers will this degree prepare you for?

Cybersecurity was once just a buzzword. Now it's a viable career path, with nearly 2 million jobs opening up in the next few years. It touches nearly every industry on every level, as cyber threats don't discriminate based on industry or size of company.

What are the admission requirements?

- High school diploma (minimum 75% average) or HSE (High School Equivalency) diploma
- Transfers need a minimum Cumulative Grade Point Average of 2.0
- Official transcripts from high school and all colleges attended



Contacts:

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TECHNOLOGY PROFESSIONS

Cybersecurity Certificate: Curriculum

Degree Levels: Certificate

Time to Completion: 10 Months

Time of Program: Evening/Day

Mode of Delivery: On-campus/Online

Semester 1

Introduction to Computer Hardware
IT Foundations
Introduction to Computer Software
College Seminar or College Success
College Algebra

Semester 2

Linux/Unix
Network Administration II
SQL for Data Analysis
Ethics in Data Science
Introduction to Computer Forensics

Cybersecurity Associate: Curriculum

Degree Levels: Associate

Time to Completion: 24 Months

Time of Program: Evening/Day

Mode of Delivery: On-campus/Online

Semester 1

College Algebra and Statistics with Business Applications
Logical Reasoning and Decision Making
SQL for Data Analysis
Introduction to Computer Networking
College Seminar or College Success

Semester 3

Statistics I
Programming Concepts and Methodologies
Ethics in Data Science
Intermediate Networking
LAN Design and Management

Semester 2

English Composition
General Psychology
Operating Systems
Computer Security
Introduction to Computer Forensics

Semester 4

Biology Elective
Research Methods: Techniques and Designs
Introduction to Programming in Java
Network Security Hardware
Seminar and Internship

In keeping with the mission, values and traditions of Trocaire College, all students **must complete at least one (1) Mercy Action Project learning experience prior to graduation.** MAP is a tuition-free, non-credit, value-added, co-curricular learning experience that provides service opportunities that integrate the College's mission through an action-reflection approach connecting service to your career path.

Immunizations/Physicals: Updated medical records from within one year of the start of the program are required and are to be submitted prior to the start of the semester.