MASTER OF SCIENCE IN
CYBERSECURITY
(MSCYB)

WHY OUR PROGRAM?

Our Master of Science in Cybersecurity (MSCYB) program is designed to prepare you for a new career in cybersecurity or further expand your skills as a working professional to help you advance in your field. Through your course work, you will be able to employ cyber prevention, defense and mitigation tools and techniques against cyber threats to protect enterprise-wide information infrastructure and assets.

As a graduate of TESU's MSCYB degree program, you will be prepared for both technical and leadership roles in major cybersecurity areas such as cybersecurity engineering and architecture, network security, application security, digital forensics and cyber-risk management.

WWW.TESU.EDU/MSCYBERSECURITY

PROTECT AND SECURE OUR DIGITAL WORLD

As the number and severity of cyber threats that organizations face continue to rise, the need for trained cybersecurity professionals has increased exponentially. However, the number of qualified entrants into the cybersecurity workforce has not kept pace with this demand, leading to a critical shortage of professionals to fill the gap.

With our unique Master of Science in Cybersecurity (MSCYB) degree program, you will develop advanced technical and leadership skills that prepare you to protect the critical information infrastructure and information assets of organizations in the public and private sectors.

PROGRAM ADVANTAGES

- Cutting-edge curriculum designed with input from leading cybersecurity experts that combines technology with relevant human, legal, policy and ethical aspects
- Hands-on approach including simulations and laboratory assignments
- Explore emerging trends and more advanced themes in cybersecurity

CAREER INSIGHTS

The U.S. Bureau of Labor Statistics projects a 28 percent growth in U.S. employment for cybersecurity consultants from 2016 to 2026.

Individuals with graduate degrees earn an average of $1 million more in lifetime income compared to high school graduates.*

Cybersecurity talent gaps exist across the country. Nationally, cyber jobs are expected to increase 7.5% from 2020-2025, and 5.0% within 100 miles of TESU.**

Top Occupations:***

- Cyber Security Engineer
- Cyber Security Analyst
- Cyber Security Consultant
- Network Engineer / Architect
- Cyber Security Manager / Administrator
- Vulnerability Analyst / Penetration Tester
- Software Developer / Engineer
- Cyber Security Specialist / Technician
- Systems Engineer

National Cybersecurity job openings: 504,316****

Median Earnings: $114,000

*https://www.ssa.gov/policy/docs/research-summaries/education-earnings.html
**Emsi Q2 2020 Data Set
***https://www.cyberseek.org/heatmap.html
****https://www.cyberseek.org/pathway.html

WHY CHOOSE TESU?

As one of the first schools in the country designed specifically for busy, motivated adults, Thomas Edison State University is dedicated to providing you with a high-quality education — anytime, anywhere.

- **Exceptional Value:** Competitive tuition and fees. Plus, financial aid and scholarships are available.
- **Barrier Free:** Students who receive an undergraduate degree with a GPA of 3.0 or higher will be automatically admitted to a graduate program.* No GRE/GMAT or recommendation letter required.
- **Degree Flexibility:** Engage in your courses whatever time of day works for you. Courses are available 24/7.

*Several programs have additional requirements beyond GPA for admission.

ONLINE. ACCREDITED. RESPECTED.

Three words that characterize Thomas Edison State University's (TESU) unique approach to providing quality higher education in today's technology-fueled times.

Dedicated to educating adult learners for five decades, TESU has set the standard in online learning. As the leader in online education and a national leader in the assessment of adult learning, TESU is accredited by the Middle States Commission on Higher Education and has been called "the college that paved the way for flexibility" by *The New York Times*.

Our innovative online and independent study courses and credit-by-exam programs give you the flexibility to pursue your degree when and where it is convenient for you. With more than 100 areas of study, TESU offers associate, bachelor's, master's and doctoral degrees and undergraduate and graduate certificates. One of New Jersey's senior public institutions, TESU's liberal credit transfer policies and tuition models remove barriers for adults pursuing higher education. Our resume-relevant programs provide career-building skills to help you meet your educational and professional goals.

YOU'RE READY TO STUDY WITH THE LEADER IN ONLINE EDUCATION. EARN YOUR DEGREE ON YOUR SCHEDULE. VISIT TESU.EDU AND APPLY TODAY.

THOMAS EDISON STATE UNIVERSITY

111 W. State St. • Trenton, NJ 08608
Office of the Dean 609-984-1130 • Graduate Admissions 609-777-5680
gradadmissions@tesu.edu • www.tesu.edu

Courses and Credit Allocation
CYBERSECURITY

Credits

MS CYBERSECURITY
CORE COURSES   30

		Credits
CYB-510	Cybersecurity Foundations	3
CYB-520	Network Defense and Security	3
CYB-530	Operating Systems Security	3
CYB-540	Cryptography and Data Security	3
CYB-550	Software and Applications Security	3
CYB-560	Cyber Forensics and Investigation	3
CYB-570	Cyber Risk Management and Incident Response	3
CYB-580	Cybersecurity Strategy, Governance, and Ethics	3
CYB-690	Special Topics in Cybersecurity	3
CYB-700	Capstone in Cybersecurity	3

TOTAL   30

NOTE: 07/2020; subject to revision