

BACHELOR OF SCIENCE IN CYBERSECURITY

(BSCYB)

WHY OUR PROGRAM?

The Bachelor of Science in Cybersecurity (BSCYB) program prepares you for well-known cybersecurity-related industry certifications that are perfect for increasing career opportunities in a rapidly growing cybersecurity job market. You will explore cybersecurity principles, apply security best practices and develop cybersecurity plans and risk management processes that protect an organization's systems and data.

AREAS OF STUDY

You may also specialize in one of the following areas of study:

- ▶ Digital Forensics and Cyber Investigation
- ▶ Cloud Security Option
- ▶ Homeland Security Option

BECOME A HIGHLY SKILLED CYBERSECURITY PROFESSIONAL

The Bachelor of Science in Cybersecurity (BSCYB) addresses the critical national need for a highly skilled cybersecurity workforce and provides you with the knowledge and skills needed to protect critical cyber infrastructure and information assets. This innovative degree program combines technical, human, policy, legal, ethical and management aspects to give you an in-depth, comprehensive understanding of cybersecurity.

PROGRAM ADVANTAGES

- ▶ The program is aligned with major certifications in the field, in which you can be awarded college credits
- ▶ Hands-on approach, which includes simulations and laboratory assignments
- ▶ Nuclear Regulatory Commission (NRC) Scholarship eligible program; scholarships averaging \$2,500 to qualified students based on need and academic performance. The maximum scholarship award is \$10,000

CAREER INSIGHTS

Within a 100 mile radius of TESU*:

- ▶ **4.8% job growth (2020-2025) (Nation +7.2%)**
- ▶ **91,988 current positions**
- ▶ **8,175 annual openings**
- ▶ **Median earnings ≈ \$88.5K/yr (Nationally \$76.0K/yr)**

Top Occupations:**

- ▶ Cyber Security Specialist / Technician
- ▶ Cyber Security Analyst
- ▶ Vulnerability Analyst / Penetration Tester
- ▶ Cyber Security Engineer



*Emsi Q2 2020 Data Set

**<https://www.cyberseek.org/heatmap.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.
- ▶ **Transfer Credits:** TESU accepts up to 90 transfer credits from a regionally accredited institution.
- ▶ **Rolling Semesters:** Begin school when it's convenient for you—a new semester begins each month.
- ▶ **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
admissions@tesu.edu • 609-777-5680 • www.tesu.edu

Courses and Credit Allocation BACHELOR OF SCIENCE IN CYBERSECURITY

	Credits
GENERAL REQUIREMENTS	60
Intellectual and Practical Skills	15
Written Communication	6
Oral Communication	3
Quantitative Literacy	3
SOS-110 Critical Information Literacy	3
Civic and Global Learning	9
Diversity	3
Ethics	3
Civic Engagement	3
Knowledge of Human Cultures	9
Understanding of the Physical and Natural World	8
Mathematics	3
General Education Electives	16
CYBERSECURITY CORE	54
CYB-120 Introduction to Cybersecurity	3
ITS-130 Database Fundamentals	3
ITS-140 Introduction to Networking	3
ITS-150 Computer Programming I	3
ITS-160 Fundamentals of Modern Operating Systems	3
CYB-220 Defensive Security	3
CYB-221 Firewalls and Perimeter Security	3
ITS-231 Database Programming	3
ITS-240 Routing and Switching Fundamentals	3
ITS-261 Linux	3
CYB-320 Ethical Hacking	3
CYB-321 Digital Forensics Techniques and Practices	3
ITS-340 Wireless and Mobile Networking	3
ITS-363 Windows Server Configuration	3
CYB-420 Critical Infrastructure Security	3
CYB-421 Cybersecurity Risk Analysis and Management	3
CYB-422 Cybersecurity Policies, Programs, and Compliance	3
CYB-495 Cybersecurity Capstone	3
ELECTIVES	6
Students choose one of the following options:	
Digital Forensics and Cyber Investigation	
CYB-440 Mobile Forensics	3
CYB-441 Network Forensics	3
Cloud Security	
CYB-450 Cloud Computing	3
CYB-451 Cloud Security and Privacy	3
Homeland Security	
HLS-410 Counterterrorism: Constitutional and Legislative Issues	3
HLS-420 Homeland Security: Preparedness, Prevention, and Deterrence	3
TOTAL	120