THOMAS EDISON STATE UNIVERSITY

THE LEADER IN ONLINE EDUCATION

MASTER OF SCIENCE IN INFORMATION TECHNOLOGY

(MSIT)

WHY OUR PROGRAM?

The Master of Science in Information Technology (MSIT) program will prepare you to become an IT leader, equipped with the knowledge and skills needed to solve a variety of complex computing problems. You'll gain expertise in cutting-edge tools and techniques that can serve the needs of practitioners tasked with the development, implementation, operation and management of sophisticated computing environments.

AREAS OF STUDY

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

- Cybersecurity Critical Infrastructure
- Data Management and Analytics
- Health Information Technology
- Information Assurance
- Network Management
- Software Engineering

WWW.TESU.EDU/MSIT

KEEP PACE WITH ADVANCING TECHNOLOGY

Technology is interwoven into every industry and continues to transform businesses around the globe. The Master of Science in Information Technology (MSIT) is an online graduate program that prepares you with the expertise and knowledge required for leadership roles in information technology (IT). You'll gain a solid foundation in IT and develop specialized, marketable skills that are most relevant to your career and professional interest.

PROGRAM ADVANTAGES

- The 36-39-credit program can be completed in less than two years on a part-time basis
- Courses are mentored by field practitioners to give you access to the most current, industry-relevant information
- 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.



"The MSIT degree helped validate my skills and bring them together into a professional credential. I was also able to delve deeper into research about current cybersecurity threats that I might not have been exposed to in my day-to-day work. My courses also gave me a 'situational awareness' about what to look out for and threats to pursue." Gina Pierson, BSAST '16, MSIT '19

CAREER INSIGHTS

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

Within a 100 mile radius of TESU^{**} Top Occupations:

- ▶ 10% job growth (2020 - 2025)
- ▶ 73,815 known positions
- ▶ 6,648 annual openings
- Median earnings ≈ \$114.9K/yr

- Software Developer, Applications and Systems
- Computer Systems Analyst
- Computer and Information Systems Manager
- ▶ IT Project Manager

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

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.



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 MASTER OF SCIENCE IN **INFORMATION TECHNOLOGY**

MSIT C		5-18
MSI-501	Foundations of Information Technolo	av* 3
MSI-502	Telecommunications and Networkir	
MSI-503	Object-Oriented Application	
	Development	3
MSI-504	Information Systems Analysis,	
	Modeling, and Design	3
MSI-505	Principles of Database Design	3
MSI-510	Project Management for Technology	/ 3
AREAS	S OF STUDY	
CYBERSECURITY —		
	AL INFRASTRUCTURE	4 5
		15
CYB-521 CYB-522	Foundation of Utility Cybersecurity Cybersecurity Risk Management	3
CTD-522	in Utility Environments	3
CYB-523	Protective Security Controls	5
010 020	in Utility Systems and Networks	3
CYB-524	Monitoring, Detection, Response, and	
	Recovery in Utility Environments	3
CYB-525	Integrating Cybersecurity into	
	the System Lifecycle	3
DATA M	IANAGEMENT AND ANALYTIC	S 15
	Advanced Database Systems	3
DTM-532		3
	Data Analytics	3
	Information Retrieval	3
DTM-535	Data Mining and Knowledge	
	Management	3
HEALTH INFORMATION TECHNOLOGY 15		
HIT-541	Foundations in Health Informatics	3
HIT-542	Clinical Informatics	3
HIT-543	Electronic Health Records Managem	ent 3
HIT-544	Telehealth Systems	3
HIT-545	Legal, Ethical, and Social Issues	
	in Health Informatics	3
INFOR	VATION ASSURANCE	15
IAS-551	Foundations of Information Assura	nce 3
IAS-552	Vulnerabilities, Threats, and Attacks	3
IAS-553	Countermeasures Design and	
	Implementation	3
IAS-554	Policies and Procedures Developme	ent
	and Implementation	3
IAS-555	Computer Forensics and	
	Information Systems Auditing	3
NETWO	ORK MANAGEMENT	15
NET-561	Designing Large-Scale Routing,	
	Switching, and Broadband Systems	
NET-562	Wireless and Mobile Networks	3
NET-563	Pervasive and Cloud Computing	3
NET-564	Large-Scale Network Operations,	
	Administration, and Maintenance	3
NET-565	Network Security	3
	ARE ENGINEERING	15
SWT-571		3
SWT-572	Software Modeling and Analysis	3
SWT-573	5	
CINTERA	Development	3
SWT-574	Software Product Development and	d 3
SWT-575	Quality Management Software Systems Integration	3
MASTER'S PROJECT 6		
TOTAL	3	6-39

*This course is required for learners who need a refresher or who lack the prerequisite knowledge in IT as determined during the

application evaluation period.