

THOMAS EDISON STATE UNIVERSITY

THE LEADER IN ONLINE EDUCATION

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

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.

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.



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Courses and Credit Allocation

MASTER OF SCIENCE IN INFORMATION TECHNOLOGY

		Condition
MCIT C	ORE COURSES 1	Credits
	Foundations of Information Technology	
MSI-501		
MSI-502 MSI-503	Telecommunications and Networki Object-Oriented Application	ng 3
IVISI-303	Development	3
MSI-504	Information Systems Analysis,	3
17131-304	Modeling, and Design	3
MSI-505	Principles of Database Design	3
MSI-510	Project Management for Technolog	
		, .
AREAS OF STUDY		
CYBER	SECURITY —	
CRITICA	AL INFRASTRUCTURE	15
	Foundation of Utility Cybersecurity	3
CYB-522		
	in Utility Environments	3
CYB-523	Protective Security Controls	
	in Utility Systems and Networks	3
CYB-524	Monitoring, Detection, Response, an	d
	Recovery in Utility Environments	3
CYB-525	Integrating Cybersecurity into	
	the System Lifecycle	3
DATA N	IANAGEMENT AND ANALYTIC	S 15
DTM-531	Advanced Database Systems	3
DTM-532	Data Warehouse Design	3
	Data Analytics	3
	Information Retrieval	3
DTM-535	Data Mining and Knowledge	
	Management	3
HEALTH	I INFORMATION TECHNOLOG	Y 15
HIT-541	Foundations in Health Informatics	3
HIT-542	Clinical Informatics	3
HIT-543	Electronic Health Records Managem	nent 3
HIT-544	Telehealth Systems	3
HIT-545	Legal, Ethical, and Social Issues	
	in Health Informatics	3
INFORI	MATION 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 Developm	
140 555	and Implementation	3
IAS-555	Computer Forensics and Information Systems Auditing	3
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	ORK MANAGEMENT	15
NET-561	Designing Large-Scale Routing,	
NICT C/O	Switching, and Broadband Systems Wireless and Mobile Networks	s 3 3
NET-562 NET-563	Pervasive and Cloud Computing	3
NET-564	Large-Scale Network Operations,	3
INE 1-304	Administration, and Maintenance	3
NET-565	Network Security	3
	ARE ENGINEERING	15
	Software Design and Architecture	3 3
SWT-572	3	3
SWT-573	Development	3
SWT-574	•	
34413/4	Quality Management	3
SWT-575		3
	R'S PROJECT	6
TOTAL	3	36-39

*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.

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

^{*}Several programs have additional requirements beyond GPA for admission.