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.

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.

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

“...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
ONLINE EDUCATION. EARN YOUR DEGREE ON YOUR SCHEDULE. VISIT TESU.EDU AND APPLY TODAY.

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.

*Couple 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.

Courses and Credit Allocation

**MASTER OF SCIENCE IN INFORMATION TECHNOLOGY**

<table>
<thead>
<tr>
<th>Credits</th>
<th>MSIT CORE COURSES</th>
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</thead>
<tbody>
<tr>
<td>15-18</td>
<td>MSI-501 Foundations of Information Technology*</td>
</tr>
<tr>
<td></td>
<td>MSI-502 Telecommunications and Networking</td>
</tr>
<tr>
<td></td>
<td>MSI-503 Object-Oriented Application Development</td>
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<tr>
<td></td>
<td>MSI-504 Information Systems Analysis, Modeling, and Design</td>
</tr>
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<td></td>
<td>MSI-505 Principles of Database Design</td>
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<tr>
<td></td>
<td>MSI-510 Project Management for Technology</td>
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</tbody>
</table>

**AREAS OF STUDY**

**CYBERSECURITY**

- **CRITICAL INFRASTRUCTURE**
  - CYB-521 Foundation of Utility Cybersecurity
  - CYB-522 Cybersecurity Risk Management in Utility Environments
  - CYB-523 Protective Security Controls in Utility Systems and Networks
  - CYB-524 Monitoring, Detection, Response, and Recovery in Utility Environments
  - CYB-525 Integrating Cybersecurity into the System Lifecycle

- **DATA MANAGEMENT AND ANALYTICS**
  - DTM-531 Advanced Database Systems
  - DTM-532 Data Warehouse Design
  - DTM-533 Data Analytics
  - DTM-534 Information Retrieval
  - DTM-535 Data Mining and Knowledge Management

- **HEALTH INFORMATION TECHNOLOGY**
  - HIT-541 Foundations in Health Informatics
  - HIT-542 Clinical Informatics
  - HIT-543 Electronic Health Records Management
  - HIT-544 Telehealth Systems
  - HIT-545 Legal, Ethical, and Social Issues in Health Informatics

- **INFORMATION ASSURANCE**
  - IAS-551 Foundations of Information Assurance
  - IAS-552 Vulnerabilities, Threats, and Attacks
  - IAS-553 Countermeasures Design and Implementation
  - IAS-554 Policies and Procedures Development and Implementation
  - IAS-555 Computer Forensics and Information Systems Auditing

- **NETWORK MANAGEMENT**
  - NET-561 Designing Large-Scale Routing, Switching, and Broadband Systems
  - NET-562 Wireless and Mobile Networks
  - NET-563 Pervasive and Cloud Computing
  - NET-564 Large-Scale Network Operations, Administration, and Maintenance
  - NET-565 Network Security

- **SOFTWARE ENGINEERING**
  - SWT-571 Software Design and Architecture
  - SWT-572 Software Modeling and Analysis
  - SWT-573 Secure Software Design and Development
  - SWT-574 Software Product Development and Quality Management
  - SWT-575 Software Systems Integration

**MASTER’S PROJECT**

**TOTAL**

*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.