

Online

# Master of Science in Information Technology

36 Credit Hours

## Admission Requirements:

- Application and processing fee.
- GPA of 3.0 and no work experience OR GPA between 2.5-2.99 with quality full-time work experience. The program director will evaluate applications on a case-by-case basis.
- Purpose statement addressing career goals.
- Resume or CV.
- Course prerequisites for admission to the program include programming, databases, networking, and statistics.
- International applicants will be required to provide TOEFL scores (if applicable) and transcript assessment for degrees completed outside of the United States.

No GRE or GMAT required

## Job Outlook in Texas:



**288,499 Jobs**  
Open in 2020\*



**665,070**  
Unique Postings (9/16-12/21)



**\$90,800** per year  
Median Earnings

\*Filtered by the proportion of the national workforce in these occupations with a Bachelor's degree. Source Emsi Analyst 2022.

## Cost:

- Per Credit: \$650
- Resource Fee: \$200
- Total Tuition Per Course: \$2,150
- Estimated Total Tuition: \$25,800



## Graduation Requirements:

Students must earn a 3.0 GPA or higher to meet graduation requirements.

## Acquired Skills:

### Top Hard Skills

- Computer Science
- Agile Methodology
- SQL (Programming Language)
- Java (Programming Language)

### Top Common Skills

- Communications
- Management
- Problem Solving
- Troubleshooting

## Core Curriculum:

### IT 632: Strategic IT Leadership

Examines principles of IT leadership and strategy, with focus on strategic issues, decisions, and unique situations within the IT arena, and ethical practice. Prerequisite: Acceptance into the MS IT Leadership program.

### BUSA 636: Organizational Behavior

Individual, group, and organizational variables that inhibit or facilitate effective organizational functioning. Topics may include rewards, motivation, culture, decision-making, and ethics.

### IT 610: IT Services and Administration

Presents contemporary topics affecting the day-to-day operational aspects of an IT organization, including asset tracking, customer care, human resources, support services and service metrics, budgeting, capacity planning, vendor relationships, and contracting and purchasing.

### BUSA 550: Foundations of Analytics

A broad preview of business and entrepreneurial thinking. Topics include accounting, finance, information systems, management and marketing. An introduction to the field of analytics, with emphasis on the application of statistical concepts, procedures, and tools to add value to organizations. Topics include data and information acquisition, analysis, and application; data visualization and reporting; technological and organizational practices to support evidence-informed decision making; and ethical issues.

### IT 615: Innovation and Entrepreneurship

Concepts and frameworks for creating, commercializing, and profiting from technology-based products and services. Specifically explores issues currently affecting the field of information service management and related information technologies, and presents the conceptual foundation for managing information technology innovation.

### IT 620: Information Assurance and Control

Investigates the impacts of technology on data quality and reliability. Covers foundations of IT security, encryption and authentication, the value of information as a strategic resource, data quality issues, information security standards, and contemporary principles of knowledge management.

### IT 625: Enterprise Architecture and Systems

Examines the processes and models that drive continuous organizational and technology alignment to optimize workflows, resource sharing, and access to services. Focuses on the supporting role of IT infrastructures in business process management. Additional topics include standards and best practices, service oriented architectures, global supply chains, and virtual technologies.

### IT 621: Advanced Information Assurance Management

Covers the advanced domains of the Information Systems Security Professional (CISSP) common body of knowledge. Domains range from forensics and legal topics to physical and operations security to programming, cryptography and network security. Prepares students to take the CISSP exam. (CSEC 5) (Prereq: IT 620 Information Assurance and Control).

### IT 618: Technical Project Management

Covers in detail the Project Management Body of Knowledge (PMBOK), including the concept of earned value analysis (EVA) and introduction to several tools and software aids. The course provides the basic information essential to completing the Project Management Professional (PMP) certification.

### IT 622: Risk Management and Compliance

Explores policy addressing compliance to legal and ethical standards, including FERPA, COPPA, GDPR, Federal Sentencing Guidelines, GLBA, SOX, etc. Introduces risk management planning best practices such as: ISACA COBIT, ITIL, and NIST. (CSEC 2) (Prereq: IT 620).

### IT 633: System Certification & Accreditation

Integrates risk management planning, enterprise architectures and compliance issues in the design and development of a system certification and accreditation program based on recognized standards such as NIST and ISO 27000. (CSEC 3) (Prereq: Risk Management and Compliance).

### IT 642: Incident Management and Response

Applies cyber incident handling process concepts based on NIST 800-61, 800-53 IR control family and other standards to develop a realistic incident management program. (CSEC 4) (Prereq: Risk Management & Compliance).