**Information Technology**

**Master of Science (MSIT) Degree**

# DEGREE INFORMATION

**Program Admission Deadlines:**

**Fall Semester: June 1**

 **Spring Semester: October 1**

**Minimum Total Hours:** 36

**Program Level:** Masters

**CIP Code:** 11.0103

**Dept Code:** EIT

**Program (Major/College): ITC / EN**

# CONTACT INFORMATION

**College:** Engineering

**Contact Information:** [www.grad.usf.edu](http://www.grad.usf.edu/)

**Other Resources:** [www.usf4you](http://www.usf4you/)

## PROGRAM INFORMATION

### Program Description

The Master of Science in Information Technology (MSIT) degree is designed for students who are either (a) graduates holding a bachelor’s degree in Information Technology, Computer Science or a closely related field, or (b) experienced information technology professionals who hold a bachelor’s degree and have taken information technology coursework specified below under “Undergraduate Prerequisites.” The MSIT aims to prepare IT professionals for increasing responsibility in their field or to move on to higher academic degree programs. The degree is available in an online mode, and provides students with a broad and integrative understanding of both technology and operational and strategic business and organizational applications. The MSIT graduate will demonstrate strong information technology skills as well as problem solving skills needed for the deployment of technology solutions to achieve business and organizational goals.

The MSIT Program of Study will provide students with a strong, foundational core of theoretical knowledge and cutting-edge research, together with opportunity to deepen knowledge and skill in application concentrations related to students’ interests, backgrounds and career goals.

**Accreditation:** Accredited by the Commission on Colleges of the Southern Association of College and Schools.

**ADMISSIONS INFORMATION**

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

**Program Admission Requirements**

For admission, all programs require earned degrees from regionally accredited institutions or an international equivalent.

Applicants seeking admission to the MSIT program must have a

* Bachelor’ Degree in Information Technology, Computer Science, or a closely related field; or a bachelor’s degree in another field, plus satisfactory completion of the courses listed below under “Undergraduate Prerequisites.”
* Minimum cumulative GPA of 3.00
* Evidence of completion of a defined subset of the required core courses found in the University of South Florida’s Bachelor of Science in Information Technology degree program or their equivalent (see “Undergraduate Prerequisites” below).
* Applicants who do not fully meet the GPA requirement may submit GRE scores. In such cases, admission or conditional admission may be granted at the discretion of the Graduate Admissions Committee.

**Undergraduate Prerequisites**

To be successful in this program, an applicant should have certain base knowledge in the discipline. The undergraduate courses listed below are considered to provide that base level of knowledge. The student should have taken these courses or their equivalent prior to beginning graduate coursework. All prerequisite courses are available online. In some cases, applicants lacking some of the prerequisites may be conditionally admitted to the MSIT program; such students will be required to complete missing prerequisites within the first year of graduate study.

Note: All undergraduate degree programs in information technology, computer science or related fields may not include all of the below prerequisites (or their equivalents). Students who hold such degrees may be required to take missing prerequisites (or their equivalents) as a condition of admission.

COP 2224/2931 Object-Oriented Programming

COP 2510/2930 Programming Concepts

COP 3515 IT Program Design

EEL 4854 IT Data Structures & Algorithms

CEN 4031 IT Software Engineering

COP 4703 IT Database Systems

Professional experience in information technology is typically focused on specific projects or systems, and is not as broad as the treatment of a topic one receives in a course. Therefore, except in unusual circumstances, professional experience cannot substitute for any of the above prerequisite courses.

**DEGREE PROGRAM REQUIREMENTS**

**Course Requirements – 36 hours**

 Core Requirements 24 hours

 CAP 6028 IT Risk Management 3

 CAP 6082 IT Intelligent Agents 3

 CGS 6425 Advances in Object Oriented Programming for IT 3

 ISM 6266 Software Architecture 3

 ISM 6218 Advanced Database Administration 3

 CAP 6011 Multimedia & E-Commerce for IT 3

 CAP 6940 IT Graduate Practicum 6

 Elective Courses 12 hours

 CNT 6008 Network Programming for IT 3

 ISM 6155 Enterprise Information Systems Management 3

 ISM 6145 Seminar on Software Testing 3

 CDA 6011 IT & Systems for E-Business 3

 CAP 6061 IT Robotics Applications 3

 ISM 6136 Data Mining 3

 ISM 6137 Statistical Data Mining 3

 CAP 6033 Information Security Architecture for IT 3

 ENG 6025 RFID and NFC Technologies for IT 3

Note: ISM prefix courses are offered by the Department of Information Systems / Decision Sciences (College of Business).

**Thesis/Non-Thesis:** This is a non-thesis program. However, the required six semester hour IT Graduate Practicum (CAP6940) serves as a comprehensive measure of student competency in the discipline. This practicum, to be taken over one or two semesters, requires satisfactory completion, as determined by a faculty panel, of a major development effort, capped by a formal presentation for faculty and other students.

**Comprehensive Exam:** The requirement for a comprehensive exam is satisfied by the successful completion of the IT Graduate Practicum (CAP6940) as described above.

**COURSE DESCRIPTIONS**

See <http://www.ugs.usf.edu/sab/sabs.cfm>