

Information Technology Management

Program Description

The M.A. in information technology management (ITM) program is designed to educate and develop managers who can effectively manage the planning, design, selection, implementation, use, and administration of emerging and converging information and communications technologies. The program curriculum provides students with the technical knowledge and management knowledge and skills needed to effectively integrate people, information and communication technologies, and business processes in support of organizational strategic goals.

Program Learning Outcomes

1. Graduates will explain the important terminology, facts, concepts, principles, analytic techniques, and theories used in the field of information technology management.
2. Graduates will be able to effectively apply important terminology, facts, concepts, principles, analytic techniques, and theories in the field of information technology management when analyzing complex factual situations.
3. Graduates will be able to effectively integrate (or synthesize) important facts, concepts, principles, and theories in the field of information technology management when developing solutions to information technology management multifaceted problems in complex factual situations.

Program Curriculum

The 36 credit hours required for the master of arts (M.A.) or the 48 credit hours required for the master of business administration (M.B.A.) with an emphasis in information technology management must include the following courses:

ITM 5000 Information Technology Management: Overview (Requisite Course)
MNGT 5590 Organizational Behavior
BUSN 5200 Basic Finance for Managers
ITM 5100 Information and Communications Systems and Networks
ITM 5200 Project Management of Information Technology
ITM 5300 Procurement and Contract Management for Information Technology
ITM 5400 Systems Analysis, Design and Implementation
ITM 5600 Information and Communications Security
ITM 6000 Final Project in Information Technology Management

In addition, the student chooses 9 hours of electives, to include ITM 5900, Issues in Information Technology Management, or other graduate elective courses offered in the program curricula of the School of Business and Technology majors.

Course Descriptions

BUSN 5200 Basic Finance for Managers (3)

Managers and human resources management professionals must be able to understand financial information contained in financial statements and reports. Line managers must be able to understand financial information contained in financial statements and reports in order to evaluate their unit's financial performance, to communicate clearly with other managers, and to apply financial information when making decisions. Human resources management professionals must understand financial statements and principles if they are to effectively assist line managers and be strategic partners with other business functions. This course will focus on the interpretation and use of basic financial information by non-financial managers, not on the production of financial statements and reports. (FINC 5000 cannot be substituted for BUSN 5200.)

ITM 5000 Information Technology Management: Overview (3)

This overview course presents a managerial and technical perspective that considers the application and management of information and communications technology in business and other types of organizations. The course includes an overview of all the core courses in the ITM curriculum. This course is a prerequisite for all other courses in the program.

ITM 5100 Information and Communications Systems and Networks (3)

This course introduces students to the technical aspects of information and communications networks and technology. The course focuses on the interdependencies among information and communications technologies and architectures. Emphasis will be placed on the fundamentals of networks (LAN and WAN).

ITM 5200 Project Management of Information Technology (3)

This course introduces students to the procedures, tools, and techniques used in planning and managing major IT projects. Issues covered include definition, planning, implementation, control and evaluation of the project. The course also focuses on developing the manager's ability to organize and lead project teams, and conflict resolution. NOTE: BUSN 6110 - Operations and Project Management is NOT an acceptable substitute for this course.

ITM 5300 Procurement and Contract Management for Information Technology (3)

This course covers the basic concepts and practices in procurement and contract management, not from a strict legal approach, but rather in a manner that equips a student with the skills and knowledge necessary to negotiate and manage the procurement of information and communications technology, armed with an understanding of the critical issues.

ITM 5400 Systems Analysis, Design, and Implementation (3)

This course covers the spectrum of activities in information systems life cycle management. The life cycle from the feasibility study through implementation and maintenance is examined. The course includes examination of structured analysis and design, prototyping, procurement and conversion methods. The roles and responsibilities of various personnel involved, as well as the communication and documentation tools and techniques employed, are studied.

ITM 5600 Information and Communications Security (3)

This course focuses on the analysis and management of information and information systems security including processes, technology, and facilities.

ITM 5900 Issues in Information Technology Management (3)

Current and significant issues in information technology management are examined. The course focuses on existing theories and practices with emphasis given to new and emerging topics in the field. Course may be repeated for credit if content differs.

ITM 6000 Final Project in Information Technology Management (3)

This capstone project course is designed to give students the opportunity to synthesize, integrate, and apply the technical and management knowledge and skills acquired in other courses in the information technology management curriculum. Techniques used to accomplish these goals may vary. Prerequisite: completion of all other required courses in this major.

MNGT 5590 Organizational Behavior (3)

This course introduces students to many of the basic principles of human behavior that effective managers use when managing individuals and groups in organizations. These include theories relating to individual differences in abilities and attitudes, attribution, motivation, group dynamics, power and politics, leadership, conflict resolution, organizational culture, and organizational structure and design.