



Master of Science in Information Technology and Management

The mission of the MS in Information Technology and Management program is to provide graduate education in bridging the gap between technology and business. It provides an educational experience that focuses on: General business and information technology, Technical and managerial aspects of information technology, Information technology strategy and policy, Applying information technology to business problems and creating efficient and effective solutions

The IS faculty is ranked in the top five worldwide in research productivity. Faculty members work closely with industry through the Center for Information technology and Management. The IS area also hosts the America's SAP Users Group meetings.

ITM graduates are in high demand. The graduates find employment in positions such as business analyst, consultant, program analyst, database administrator, IT project manager, and IT specialist, depending on prior experience. They are employed in every conceivable industry including consulting, financial services, retail, energy, transportation, and consumer goods.

Program Structure

The M.S. degree in ITM requires a minimum of 36 credit hours, consisting of basic business courses, IT foundation courses, IT elective courses, and free electives. Students may choose approved electives that maximize their individual educational and professional goals. The program offers opportunities for students to concentrate in specific tracks such as 'Enterprise Systems', 'Healthcare Systems', and 'Information Security' depending on their interests and goals.

Basic Business Core Courses (at least 9 hours)

AIM 6305 Accounting for Managers
FIN 6301 Financial Management
MECO 6303 Business Economics
MKT 6301 Marketing Management
OPRE 6301 Quantitative Introduction to Risk and Uncertainty in Business
OPRE 6302 Operations Management
OB 6301 Organizational Behavior

IT Foundation Courses (12 hours)

MIS 6316 Data Communications
MIS 6323 Object Oriented Systems
MIS 6326 Database Management Systems
MIS 6308 Systems Analysis and Project Management

IT Electives (minimum of 9 hours)

Free Electives (6 hours)

For further information, contact Professor Srinivasan Raghunathan, sraghu@utdallas.edu, (972) 883-4377



University of Texas at Dallas – Enterprise Systems Courses

Graduate Courses

AIM 6338 Accounting Systems Analysis and Design with SAP (3 semester hours) –Using SAP or similar software, this course focuses on accounting information systems as part of integrated enterprise systems and modern systems analysis and design of integrated accounting systems. Emphasis will be on integrated business processes and related financial transaction flows, system analysis and design methods in SAP with focus on configuration methods.

MIS/AIM 6379 ABAP Programming (3 semester hours) This course provides a thorough understanding of the role of ABAP programming, SAP's programming language, in the implementation and use of enterprise systems. Focus of the course will include complex report development, SAP query, dialog programming, ABAP Objects, transaction development, EDI/ALE and BAPI development, Business Add-ins (BADIs) and output processing.

MIS 6319 Enterprise Resource Planning (3 semester hours) This course is intended to cover the evolution of computing from “standalone technology islands” to networked computing systems and from standalone applications to integrated enterprise wide applications. It includes a discussion of the idea behind client server computing, application development for a client server architecture, and selection and implementation of ERP systems. A part of the course will be set aside for demonstrations and “hands on” exercises with one of the available ERP software.

MIS 6309 Business Data Warehousing with SAP (3 semester hours). This is a GMBA On-line reading, lectures, and SAP Business Warehouse System hands on course. Students will first study general Data Warehousing and Business Intelligence. The remainder of the course focuses on SAP Business Warehousing and reporting. Students will learning how to develop and implement Queries that data mine existing data that resides in the UTD SAP Business Warehouse. Students will also develop and import data into the UTD SAP Business Warehouse.

MIS/OPRE 6369 Supply Chain Software (SAP SCM) (3 semester hours). The course teaches supply chain management concepts and application with software such as SAP ERP and Advanced Planner & Optimizer (APO). This software is used in lab exercises that provide students with a hands-on experimental learning experience. The focus is on the supply planning function of supply chain management. Topics include: introduction to ERP and SAP, SAP navigation techniques, master and transaction data, demand management, MRP, forecasting, supply network planning, and integration of ERP and APO modules. This course is intended for graduate students with interests in software-based supply chain management. Previous experience with SAP software is not required.

MIS 6329: Advanced ERP: Sales and Distribution (3 semester hours) - The class focuses on advanced process and configuration issues related to ERP implementation. The functional side of sales, distribution, delivery and billing as well as integration with materials management and financial accounting is emphasized. SAP is currently used to discuss and provide hands-on experience with key ideas.

MIS/AIM 6378: Customer Relationship Management (3 semester hours) - The class focuses on advanced process issues related to customer relationship management. The functional side of customer acquisition, interaction, and retention as well as integration with sales and distribution is emphasized. SAP is currently used to discuss and provide hands-on experience with key ideas.

Undergraduate Courses

AIM 3322 Integrated Accounting Information Systems (3 semester hours) This course employs SAP or similar software to illustrate the fundamental concepts of integrated accounting information systems.

BA 4356 Enterprise Resource Planning (3 semester hours) The objective of this course is to introduce the concept of Enterprise Resource Planning and to understand the issues in the selection and implementation of ERP software. There will also be a discussion on the architectural issues involved in executing a client-server application. Students will get hands-on experience with available ERP software and learn about implementation issues that arise in real organizations.

BA 4369 Integrated SCM Information Systems (3 semester hours) This course will introduce the concept of an integrated supply chain management system such as SAP's Enterprise Resource Planning System. Students will: 1) learn the elements of a ERP application, 2) understand the concepts of end-to-end supply chain management, 3) define the basic master data needed to create a supply chain plan, 4) forecast demand using several statistical methods, 5) plan inventories using MRP and Re-order point techniques, 6) execute the supply chain plan through the production process, 7) view the completed inventories after production.

BA 4325: ERP for Small and Medium Enterprises (3 semester hours) - The course focuses on developing integrated information systems for small and medium enterprises (SMEs) . The emphasis is on unique challenges faced by SMEs not only in developing their own integrated information systems but also in integrating their systems with their larger partner firms. Hands-on experience using SAP's Business One for implementing customer relationship management, purchase, production, logistics, human resources, and accounting solutions. Students will have the opportunity to obtain SAP Business One certification.

For further information about the enterprise systems courses/SAP Users' Group, visit www.utdallas.edu/orgs/sug or contact Srinivasan Raghunathan, sraghu@utdallas.edu, (972)8834377
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