

Advanced Management Information Systems (Basic track is required if taking advanced tracks)

Choose two of the following:

1. ISM 6442 International Aspects of Information Systems

An examination of the role of information technology (IT) in international organizations. Topics covered will include global networking, outsourcing and service levels, and issues concerning country diversity, national IT environment, and IT policy. (PR: ISM 6021 Management Information Systems)
Faculty: Dr. Rosann Collins

2. ISM 6124 Advanced Systems Analysis and Design

This course covers advanced topics of information systems development. Students learn to manage and perform activities throughout the information systems development life cycle. State-of-the-art system development processes, methods, and tools present (ISM: 6123 Systems Analysis and Design or equivalent).
Faculty: Dr. Richard Will

3. ISM 6155 Enterprise Information Systems Management

Development of enterprise transaction processing applications using procedural or object oriented programming languages, relational database management, database sharing, CASE methodology and project management techniques. Students will work in groups on semester projects (PR: ISM 6124 Advanced System Analysis and Design, and ISM 6218 Advanced Database Management System).
Faculty: Dr. Grandon Gill

4. ISM 6218 Advanced Database Management

Advanced database design and management. Topics include, relational databases, database control issues, object-oriented database analysis and design, distributed database design and use of parallel systems, intelligent databases, and OLAP databases. Expert and intelligent databases. OLAP databases. (PR: ISM 6217 Database Administration or ISM 4212, or equivalent)
Faculty: Dr. Don Berndt

5. ISM 6225 Distributed Information Systems

The content of this course will focus on telecommunications, networks, and distributed applications. All forms of communications will be covered including voice, video, image, and data. Students will gain exposure to network management systems, local area networks (LANs), and global networks, such as the Internet. (PR: ISM 6021 Management Information Systems)
Faculty: Dr. Kaushal Chari

6. ISM 6208 Data Warehousing

This course is designed for the MS graduate student and interested MBA students. The course covers the rapidly emerging data warehousing and data mining technologies that are likely to play a strategic role in business organizations. Topics include the differences between operational and analytical database systems, dimensional modeling (data cubes) and star schemas, data warehouse performance issues, data quality, the data warehouse development life cycle, data warehouse navigation, and a brief overview of selected data mining techniques. The Oracle database system will be used to illustrate

many of the concepts covered in class, as well as providing a platform for hands-on projects. As a prerequisite, students should have had at least two courses covering relational database systems (usually including ISM 6218: Advanced Database Systems), or significant work experience.

Faculty: Dr. Don Berndt

7. ISM 6136 Data Mining

This course is designed for the MS in Information Systems graduate student and interested MBA students. The course covers the rapidly evolving data mining techniques that are becoming critical for customer relationship management and other business intelligence applications. This course complements the materials covered in the Data Warehousing elective. Topics include the business motivations for data mining, a review of related data warehousing material, and coverage of data mining techniques such as decision trees, neural nets, market basket analysis, and genetic algorithms. As a prerequisite, students should have had at least one course covering relational database systems, a course in statistics and/or significant work experience.

(PR: ISM 6217 Database Administration)

Faculty: Dr. Balaji Padmanabhan

8. ISM 6480 Electronic Commerce

This course provides a broad-based introduction to different facets of e-commerce, from both technical and managerial perspectives. Designing new e-commerce businesses as well as redesigning existing business to take advantage of e-commerce are examined. Specifically, the course covers three areas: (1) e-commerce concepts, (2) e-commerce applications, and (3) e-commerce technologies.

(PR: ISM 6021 Management Information Systems or consent of instructor)

Faculty: Dr. Balaji Padmanabhan

9. ISM 6930 Enterprise Resource Planning and Business Process Management

The course format is divided between lecture/discussion sessions and laboratory sessions (to enable use of mySAP for in-class exercises and demonstrations). Students will be evaluated via examinations, presentations, class discussion, case study analyses, ERP exercises, and team project. The team project requires analysis of a major business process and implementation of that process in mySAP.

(PR: Open to MS/MIS students, COBA Graduate students with ISM 6021, or consent of instructor).

Faculty: Dr. Rosann Collins

10. ISM 6316 Project Management

The general objective of this course is to become familiar with the fundamental for managing project management and to develop an understanding of the overall process of dealing with competing demands in various environments.

(PR: ISM 6021 Management Information Systems)

Faculty: Dr. Richard Will

11. ISM 6930 Web Application Development

The purpose of this course is two-fold: (1) to reinforce object-oriented concepts and (2) to expose students to web applications architecture and related concepts. Topics to be covered include database connectivity, multithreading, client server computing, java server faces, java beans and AJAX. Java will be used as a tool to explain various concepts.

(PR: One semester of object oriented programming).

Faculty: Dr. Manish Agrawal

12. ISM 6930 Information Security & Risk Management

The course has two objectives – (1) to help students develop strong technical skills in securing computer networks and (2) to help students understand IT controls in a business environment. These objectives will be achieved through extensive hands-on projects on implementing UNIX and Windows STIGs (Security Technical Implementation Guidelines) and documenting some key COBIT 4.0 processes. Require project reports will help students improve their writing and documentation skills.

(PR: ISM 6225 Distributed Information Systems)

Faculty: Manish Agrawal

Basic track and Advanced track are offered at the Tampa Campus and Downtown Center.