Financial Services Operations and Systems Major

Department of Information and Technology Management Faculty: Associate Professor Webb, Chair; Professors Courier; Associate Professors Jeffries, Jenzarli, Nelson, Papp, Shirley; Assistant Professors Alhourani, Jain, Veltri, Yalabik; Instructor Fentriss.

Department of Finance Faculty: Associate Professor Jankowski; Assistant Professors Flagg, Margetis.

The Financial Services Operations and Systems major is offered jointly by the Information and Technology Management Department and the Finance Department. This challenging major involves the innovative application of computer technology and analytical skills to understand the information needs within the operations of the financial services industry. Students majoring in FSOS receive a comprehensive education in the design, analysis, development and management of information systems.

Several specialized courses tailored to the needs of the 21st century financial services industry distinguish this major from others. FSOS students are educated in financial markets and institutions, financial service operations, business continuity, risk management and data mining. FSOS graduates have strong analytical, technical and managerial skills spanning the business functional areas, and are experienced in oral and written communication.

Partnerships with the financial services and information systems professional associations provide many opportunities for student interaction with the business community. Internships with well known corporations are available to qualified students. Alliances with Microsoft provide students access to a wide array of software tools. This combination of skills and experience prepares our FSOS graduates to be leaders of the next generation of professionals in the financial services industry.

Requirements for a degree in the Sykes College of Business:

College of Business core requirements* ....................................33
SPE 200 Oral Communications, or SPE 208 Speech for Business and the Professions..................4

*FSOS majors substitute ITM366 for ITM 361 (upper COB core)

Financial Services Operations and Systems major requirements:

MAT 225 Calculus for Business ........4
ITM 251 Visual Basic..........................3
ITM 261 Web Programming.............3
ITM 280 Data Communication Systems...........................3
ITM 318 Systems Analysis and Design I .........................3
ITM 350 Business Continuity and Risk Management ..........3
ITM 360 Advanced Programming....3
Four-Year Degree Plan for Majors in Financial Services Operations and Systems

First (Freshman) Year

Fall Semester (16 sem. hrs.)
- GTW 100 Gateways ..........................1
- ENG 101 Composition and Rhetoric I ..............4
- ACC 202 Financial Accounting Information ...............3
- MAT 225 Calculus for Business*** ....4
- GIS 101 Global Issues .........................4

Spring Semester (16 sem. hrs.)
- GTW 102 Gateways II ............................1
- ENG 102 Composition and Rhetoric II ...............4
- ACC 203 Managerial Accounting ..............3
- ECO 204 Principles of Microeconomics ..........3
- ITM 200 Introduction to Computers ..............1

Second (Sophomore) Year

Fall Semester (16 sem. hrs.)
- ECO 205 Principles of Macroeconomics ..........3
- ITM 251 Visual Basic ......................3
- Science Course* ................................3
- SPE 200 or 208 ................................4
- ITM 220 Information Systems ..........3

Spring Semester (16 sem. hrs.)
- ITM 210 Managerial Statistics .............3
- ITM 280 Data Communications Systems ..........3
- ITM 261 Web Programming ...............3
- Science Course* ................................3
- General Curr. Dist. Course (Non-COB) ..........4

Note: The lower COB core, ENG 101 and 102, ITM 200 and MAT 225, must be completed by the end of the sophomore year.

Third (Junior) Year

Fall Semester (16 sem. hrs.)
- FIN 310 Financial Management ..........3
- ITM 318** Systems Analysis and Design I ..........3
- ITM 350 Business Continuity and Risk Management ..........3
- MGT 330 Principles of Management ....3
- General Curr. Dist. Course (Non-COB) ..........4

Spring Semester (16 sem. hrs.)
- ITM 360 Advanced Programming ..........3
- MGT 335 Essentials of Corporate Responsibility ..........3
- MKT 300 Principles of Marketing ..........3
- General Curr. Dist. Course (Non-COB) ..........4
- ITM 408 Database Design and Administration ..........3

Fourth (Senior) Year

Fall Semester (16 sem. hrs.)
- FIN 470 Financial Markets, Institutions and Money ..........3
- ITM 366 Financial Operations Management ..........3
- ITM 419** Systems Analysis and Design II ..........3
- FSOS Major Elective ..........................3
Non-COB General Elective ..................................................4

Spring Semester (12 sem. hrs.)

MGT 431** Practical Strategic Management .................3
ITM 466 Data Mining and Informatics .....................3

Non-COB General Elective ................................................6

*Science courses must be from different areas. One science course must be in biology. The second science course must be in chemical or physical science.

**Writing intensive course.

***FSOS majors are required to take MAT 225 or higher (fulfills the 4-hour baccalaureate math requirement).

Management Information Systems Major

Department of Information and Technology Management Faculty:
Associate Professor Webb, Chair; Professor Courier; Associate Professors Jeffries, Jenzarli, Nelson, Papp, Shirley; Assistant Professors Alhourani, Jain, Veltri, Yalabik; Instructor Fentriss.

Management Information Systems is a challenging field of study focused on integrating information technology solutions and business processes to meet the information needs of businesses and other enterprises. The perspective of MIS on information technology is to emphasize information and a view of technology as an instrument for generating, processing and distributing information. Students majoring in MIS receive a comprehensive education in the design, analysis, development and management of information systems, the functional business areas, and various managerial and analytical skills required in any organization. Our graduates have a combination of strong technical and business skills, including oral and written communication, that bridge the gap that often exists between business users of systems and technically trained specialists.

Features of our innovative program include interactive lectures, individual and team assignments, and experiential learning to help students build successful careers. Alliances with Microsoft provide students access to a wide array of software tools. Partnerships with information systems professional associations provide many opportunities for student interaction with the business community. Internships with well-known corporations are available to qualified students.

Requirements for a degree in the Sykes College of Business:

College of Business core requirements ...36
SPE 200 Oral Communications, or
SPE 208 Speech for Business and the Professions .........................4

Management Information Systems major requirements:

MAT 225 Calculus for Business ..........4
ITM 251 Visual Basic .....................3
ITM 261 Web Programming ..............3
ITM 280 Data Communication Systems ..........3
ITM 318 Systems Analysis and Design I ..........3
ITM 360 Advanced Programming ..........3
ITM 408 Database Design and Administration ..........3
ITM 419 (Capstone) Systems Analysis and Design II ..........3

Two of the following courses: ..................6
ITM 330 Operating Systems .............3
ITM 335 Software Applications for Microcomputers ..........3
ITM 350 Business Continuity and Risk Management ..........3
ITM 410 Network Management ..........3
ITM 415 Business Intelligence Solutions ..........3
ITM 416 Electronic Commerce ..........3
ITM 420 Informational Systems in the Global Environment ...3
ITM 430 Strategic Information Systems .....................3
ITM 466 Data Mining and Informatics .....................3
ITM 495 Special Topics in Information Technology Management ..........3