MASTER OF SCIENCE IN INFORMATION SYSTEMS

The Master of Science program in Information Systems is designed to prepare students for specialized roles in information systems. The MS program is offered in both the traditional semester format, and in an executive (alternate weekend) format. The executive program focuses on Information Technology Management and is designed for students with six or more years professional experience.

The traditional semester format program is intended to prepare students for senior level positions, planning, organizing, managing, designing, configuring and implementing information systems, using state-of-the-art technologies, methods, techniques, and tools.

CURRICULUM

Prerequisites:
Students enrolled as majors in the program who do not have formal background or equivalent training must take the appropriate undergraduate courses to satisfy the prerequisite prior to taking Master’s program courses.
INFO 202 - Introduction to E-business Technologies
INFO 300 - Information Technology Infrastructure
INFO 350 - Intermediate Programming
INFO 361 - Systems Analysis and Design
INFO 364 - Database Systems
INFO 370 - Data Communications
MATH 211 - Mathematical Structures
A course in calculus

Foundation Courses:
SCMA 524 - Statistical Fundamentals for Bus. Management
ACCT 507 - Fundamentals of Accounting
or ECON 500 - Concepts in Economics
or FIRE 520 - Financial Concepts of Management
Students with equivalent undergraduate coursework may have SCMA 524 and/or the additional foundation course requirement waived.

Required Core Courses (12 credit hours):
INFO 610 Analysis and Design of Database Systems
INFO 620 Data Communications
INFO 630 Systems Development
INFO 640 Information Systems Management

Information Systems Electives (12 to 18 credit hours):
CISS 634 Ethical, Social, and Legal Issues in CISS (*C)
INFO 609 Data-centric Re-engineering Analysis/Planning
INFO 611 Data Re-engineering
INFO 614 Data Mining (*C)
INFO 616 Data Warehousing
INFO 632 Business Process Engineering
INFO 641 Strategic Information Systems Planning
INFO 642 Decision Support and Intelligent Systems
INFO 643 Information Technology Project Management
INFO/CISS 644 Prin. of Computer & Info. Sys. Security (*C)
INFO 646 Security Policy Formulation and Implementation (*C)
INFO 658 Securing the Internet of Things (*C)
INFO 664 Information Systems for Business Intelligence
INFO 691 Topics in Information Systems
INFO 693 Field Project in Information Systems
INFO 697 Guided Study in Information Systems

Other Approved Electives (0 to 6 credit hours):
A maximum of two non-INFO electives may be completed.
SCMA 603 SAP ERP and Supply Chain Management
SCMA 632 Statistical Analysis and Modeling
SCMA 643 Applied Multivariate Methods
SCMA 648 Analytics for Organizational Decision Making
SCMA 669 Forecasting Methods for Business

Concentration:
Students may earn a concentration in information risk, security and assurance by completing all five security courses noted with a (*C) above.