

BUSINESS MANAGEMENT OF SECURE INFORMATION SYSTEMS (MSIS)

600 Level Courses

MSIS 611: *Leadership and Change Management*. 2 credits.

Distinguishes between leadership and management, and focuses on the critical roles and functions of leadership, including communication ability, use of power and influence, providing direction, aligning an organization's systems, motivating a workforce, and creating a culture for effectiveness. It also focuses on strategies for developing oneself as an effective leader. Offered by School of Business. May not be repeated for credit. Equivalent to TECM 611.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a major in Management of Secure Info Syst or Technology Management.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

MSIS 614: *Financial and Cost Accounting*. 2 credits.

Provides managers with an overview of the purpose and importance of accounting within the organization and the financial valuation of information technology companies, projects, and product line. Students focus on the economics and analysis of business transactions and their related financial reporting issues from internal and external stakeholder perspectives. Students improve their skills in analyzing financial issues and presenting results in a case analysis framework. Offered by School of Business. May not be repeated for credit. Equivalent to TECM 614.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a major in Management of Secure Info Syst or Technology Management.

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Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

MSIS 620: *Economics of Technology Management*. 2 credits.

Enables students to build and evaluate economic and business models that can be used to analyze real managerial questions that affect all types of institutions, especially firms in the information technology industry. Students develop a better understanding of the operation of markets in general and the use of various quantitative and qualitative

methods when making decisions within the firm. The use of economic analysis allows students to identify and evaluate decision alternatives, the competitive environments of firms, and the factors that influence firm performance, especially in the information technology industry. Offered by School of Business. May not be repeated for credit. Equivalent to TECM 620.

Registration Restrictions:

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Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

MSIS 635: *Decision Models and Methods*. 2 credits.

Explores current metrics and metric development for quality, intangible assets, and project management as required within information technology companies. Applies statistical tools of best use with these metrics. Offered by School of Business. May not be repeated for credit. Equivalent to TECM 635.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

MSIS 641: *Innovation, Commercialization and Entrepreneurship*. 2 credits.

Cybersecurity is a field with both tremendous opportunity and need for innovations and commercialization of new technologies. In addition, there is tremendous opportunity and success by cybersecurity startup firms in US and internationally. Course investigates technology and cybersecurity innovation and commercialization and keys to success for cybersecurity entrepreneurship. Offered by School of Business. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a major in Management of Secure Info Syst.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

MSIS 643: Managerial Finance. 2 credits.

Surveys the theory and practice of corporate financial management with specific application to the technology sector. Students develop an understanding of key elements required in the valuation of project alternatives; including their strategic importance. Students evaluate and use financial management models and gain an understanding of how finance can be employed as a source of potential competitive advantage. Offered by School of Business. May not be repeated for credit. Equivalent to TECM 643.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a major in Management of Secure Info Syst or Technology Management.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

MSIS 696: Directed Studies in Management of Secure Information Systems. 1-3 credits.

Approval by faculty member and program director required prior to registration. Studies specialized topics in business not otherwise available in the curriculum. Offered by School of Business. May be repeated within the degree for a maximum 4 credits.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a major in Management of Secure Info Syst.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Independent Study

Grading:

This course is graded on the Graduate Regular scale.

MSIS 697: Special Topics in Management of Secure Information Systems. 1-3 credits.

Sections established as necessary to focus on various topical issues that emerge in practice of management of secure information systems.

Offered by School of Business. May be repeated within the term for a maximum 6 credits.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Enrollment is limited to students with a major in Management of Secure Info Syst.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Special scale.

700 Level Courses

MSIS 711: Deriving Strategic Value from IT Investments. 2 credits.

Prepares students to be educated consumers of information technology to maximize strategic advantage of IT to an organization. Information technologies, architectures, and products are categorized and analyzed with a view to develop and maintain the most favorable IT asset portfolio to successfully carry out business goals and strategies. Techniques for making group technology assessments, outsourcing decisions, project bidding, and contract negotiations. Offered by School of Business. May not be repeated for credit. Equivalent to TECM 711.

Registration Restrictions:

Enrollment is limited to students with a major in Management of Secure Info Syst or Technology Management.

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

MSIS 735: Capstone Project. 1-3 credits.

Teams undertake a strategic evaluation and plan for IT-driven business initiatives. Presentation includes analysis of competitive forces and the value chain; recommendations, including changes in goals and organizational design; plan of action integrating marketing, human resource development, organizational design, finance, and information technology; and implementation plan using theories of communication and change management, to include business case and business plan. Offered by School of Business. May not be repeated for credit. Equivalent to TECM 735.

Registration Restrictions:

Enrollment is limited to students with a major in Management of Secure Info Syst.

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Special scale.

MSIS 747: *Enterprise Information Security Audit*. 2 credits.

Focuses on defining a control framework, control objectives and the logging, monitoring and reporting and subsequent change management for an enterprise relying on secure information systems to its business objectives. Students will learn the process of creating a control structure with goals and objectives, audit a given IT infrastructure against it, and if found inadequate, establish a systematic remediation procedure. Offered by School of Business. May not be repeated for credit.

Recommended Prerequisite: C or higher in MSEC 510 or equivalent.

Registration Restrictions:

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Regular scale.

MSIS 750: *Global Practices in Security of Information Systems*. 1-3 credits.

Students spend a week in an international residency. Emphasizes dealing with technological changes across international markets and amid global developments, virtual organizations, and project management across cultures. Corporate site visits combined with presentations by professors from universities outside the United States and relevant practitioners. Offered by School of Business. May not be repeated for credit.

Registration Restrictions:

Enrollment is limited to students with a major in Management of Secure Info Syst.

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

Grading:

This course is graded on the Graduate Special scale.