

MS - Information Technology Management Course Descriptions

ISTM671 – *Organizational Culture and Team Building*: provides students an understanding of the impact information technology has made in defining an organization's culture and the processes that are used to support operational and strategic decision-making. Topics include: organizational culture and team building in the age of new business models, virtual work environments, privacy, telecommuting, monitoring Internet access and content, and communication etiquette, electronic teleconferencing, video, data, and web conferencing.

ISTM672 – *Information Systems Management*: examines the information requirements of an organization. The difference in the kinds of information needed at operational, administrative, strategic, and organizational levels are emphasized. Planning and implementing a comprehensive information system and methods to measure its effectiveness are discussed.

ISTM673 – *Analysis and Decisions*: focuses on the analysis and decisions required for selecting new systems or technology. Specifically, the course covers business requirements analysis, system life cycle models, Unified Process, and other system development methodologies, structural and behavioral system models, CASE tools, decision analysis for vendor and technology selection, feasibility and risk analysis, and implementation and transition management.

ISTM674 – *Emerging Technologies*: designed to identify emerging computer hardware, software, and communication/network technologies that impact the design and implementation of new information systems. Managerial challenges and issues, including new and existing technology compatibility, the return on new technology investments, and strategies for assessing and mitigating an organization's risk exposure are examined.

ISTM675 – *IS Planning and Project Management*: provides a basic framework for understanding IT project management. The responsibility and authority of a program manager and the integration of program functions in a complex organizational structure will be addressed. Through a combination of simulation activities with formal presentations and experiential learning, the following concepts will be addressed: definition of budgets, allocation of resources, consideration of ROI, earned value, management consideration of metrics accumulation and assessment, and control of scope creep.

ISTM676 – *IS Assurance and Security Management*: provides a fresh look at managing and protecting the information resources of a firm. While identifying issues, concerns and problems, the course takes students through various tools and techniques that are useful in interpreting information systems security concerns in organizations.

ISTM677 – *Structuring Information for Decision Making*: presents an overview of information systems methods that are used to structure information for decision making. Students successfully completing the course will understand the range of potential data management options used to present information for decision making and their various strengths and weaknesses.

ISTM678 – *IS in the Digital Economy*: expounds the innovative nature of the confluence of the Web and the business. The notion of disruptive technologies is introduced and discussed. Further, the means by which the relative success and failure of IS in the Digital Economy can be assessed/measured are deliberated. A number of emergent issues related to the Digital Economy (viz. eTrust, eCRM, Social Responsibility etc) are discussed.

ISTM679 – *Enterprise Information Systems*: Over the past decade organizations have been relying more heavily on enterprise-wide deployment of software applications (ERP) to solve their integration problems. This course begins by describing the true size and magnitude of the enterprise integration challenge. Next it examines the general form of problem solution offered by these ERP packages. Since implementation of ERPs continues to be a major challenge, the course fully examines both the track record and successful approaches to enterprise information systems implementation.

ISTM691 – *Topics in IS/IT Management*: Study of current topics. Topics may vary from semester to semester.