INFORMATION TECHNOLOGY MGMT (ITMG)

ITMG 100 | INFORMATION SYSTEMS
Units: 3
Core Attributes: First Yr Integration (LC Only)
An introductory course on how technology and information systems impact business organizations. In addition to learning business information systems best practice you learn each of the four Microsoft Office (Excel, Access, Word and PowerPoint) software applications and be able to apply them successfully to problem solving scenarios. This course will also prepare you to take the Microsoft Office Specialist Certification in Excel.

ITMG 294 | SPECIAL TOPICS IN INFORMATION TECHNOLOGY MANAGEMENT
Units: 1-4 Repeatability: Yes (Repeatable if topic differs)
An overview and analysis of selected topics in information technology management. The course may be repeated if the topic changes. Prerequisites may change depending on the topic.

ITMG 310 | BUSINESS & ORGANIZATIONAL APPLICATION PROGRAMMING & DEVELOPMENT
Units: 3 Repeatability: No
Prerequisites: (ITMG 100 with a minimum grade of C- or BUSN 101 with a minimum grade of C-) and (MATH 130 with a minimum grade of C- or MATH 133 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
The study of advanced methods and techniques in decision support application development using spreadsheet, database, and visual programming software. The course enables students to solve business problems by integrating tools including spreadsheets, database, programming languages, and the Internet. The course stresses development of complete, turnkey systems with programming facilities available in decision support software programs. Heavy emphasis is placed on developing programming skills for business and organizational applications.

ITMG 320 | DATABASE DESIGN AND BUSINESS INTELLIGENCE IMPLEMENTATION
Units: 3 Repeatability: No
Prerequisites: (ITMG 100 with a minimum grade of C- or BUSN 101 with a minimum grade of C-) and (MATH 130 with a minimum grade of C- or MATH 133 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
The theory and practice of designing and modifying database management information systems for the use of business intelligence implementation. Topics include: best practices in data modeling, data normalization, and database design; database implementation methods for business use; and the use and evaluation of alternative database management software packages. Instructional methods include lecture, demonstrations, group problem-solving exercises, database design and business intelligence implementation projects, and student presentations.

ITMG 330 | ELECTRONIC COMMERCE
Units: 3 Repeatability: No
Prerequisites: ITMG 100 with a minimum grade of C- or BUSN 101 with a minimum grade of C- and (MATH 130 with a minimum grade of C- or MATH 133 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
This course will help you better understand the emerging online technologies and trends and their influence on the electronic commerce marketplace. Topics include the Ecommerce fundamentals, Ecommerce business strategy, supply chain management, customer relationship management, and implementation of ecommerce such as analysis, design and maintenance.

ITMG 340 | INTRODUCTION TO WEB SITE DESIGN
Units: 3 Repeatability: No
Prerequisites: ITMG 100 with a minimum grade of C- and (MATH 130 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
Creating websites for business purposes, and learn the essential tools for web site development. The instruction will include planning a web site, understanding the principles and elements of web site design, page optimization, and evaluating web site effectiveness. Teaching methods include mostly hands-on skill building using the latest software available for web design.

ITMG 350 | MANAGEMENT INFORMATION SYSTEMS
Units: 3 Repeatability: No
Prerequisites: ITMG 100 with a minimum grade of C- or BUSN 101 with a minimum grade of C-
A management-oriented overview of information systems with an emphasis on ways to analyze and use information technologies from the perspective of a business professional. The emphasis is threefold: to understand an analytic, integrative approach for thinking about (information) systems; to understand the uses of information technology to the success of organizations and competitive advantage; and to reinforce your skills using the latest server and Internet applications for managerial problem-solving and productivity. Topics include: international competitive uses of information systems; various ways of using information technologies in business processes, products, and services; impacts of information systems on the productivity of individuals and organizations; methods of information management decision making; factors leading to successful implementation of information systems; and threats and risks associated with information systems. Instructional methods include lecture, case study analysis, hands on training with current business software, community service-learning, technical writing, and presentations.

ITMG 360 | COMPUTER NETWORKS, SECURITY, AND FORENSICS
Units: 3 Repeatability: No
Prerequisites: ITMG 100 with a minimum grade of C- or BUSN 101 with a minimum grade of C- and (MATH 130 with a minimum grade of C- or MATH 133 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
This course is designed to give the student a thorough understanding of the existing use of data communication networks, information security and computing forensics. Students will also learn about future developments in the area of telecommunications. Topics include: various protocols, topologies, and configuration used in modern data communications networks; the characteristics, engineering, and economic trade-offs among essential network hardware and software components; and current telecommunications industry standards and emerging technologies. Hands-on projects introduce students to the nuances of design, implementation, and management of computer networks in real-world environments using prevailing networking software.
ITMG 376 | GIS APPLICATIONS IN BUSINESS
Units: 3 Repeatability: No
Prerequisites: ITMG 100 with a minimum grade of C- and (MATH 130 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
An introduction to geospatial, or geographic, information systems (GIS) applied to organizational and environmental decision-making applications. The course provides background knowledge to identify spatial characteristics of many decision-making situations and to integrate spatial thinking and GIS analysis into the student’s academic studies and career. The course includes hands-on laboratory tutorials and projects using ArcGIS 10 desktop GIS software.

ITMG 440 | INTERACTIVE MOBILE AND WEB APPLICATION DEVELOPMENT
Units: 3 Repeatability: No
Prerequisites: (ITMG 100 with a minimum grade of C- or BUSN 101 with a minimum grade of C-) and (MATH 130 with a minimum grade of C- or MATH 133 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
This course is designed to give the student a thorough understanding of the existing use of data communication networks, information security and computing forensics. Students will also learn about future developments in the area of telecommunications. Topics include: various protocols, topologies, and configurations used in modern data communications networks; the characteristics, engineering, and economic trade-offs among essential network hardware and software components; and current telecommunications industry standards and emerging technologies. Hands-on projects introduce students to the nuances of design, implementation, and management of computer networks in real-world environments using prevailing standard networking software.

ITMG 494 | SPECIAL TOPICS IN INFORMATION TECHNOLOGY MANAGEMENT
Units: 1-4 Repeatability: Yes (Repeatable if topic differs)
Prerequisites: (MATH 130 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
An in-depth analysis of selected topics in information technology management. The course may be repeated if the topic changes. Prerequisites may change depending on the topic.

ITMG 496 | UNDERGRADUATE RESEARCH
Units: 1-3 Repeatability: Yes (Can be repeated for Credit)
Students develop and/or assist in research projects in various fields of information technology management under the supervision of a faculty member. Students will meet with a faculty member, with whom a research relationship is established, on an on-going basis to discuss the research project, assess the student’s role and responsibilities, and to discuss the process of conducting scholarly research. Students may participate in a range of research activities, including but not limited to: survey construction and design, project management, participant solicitation, experimental research, qualitative interviewing, focus group moderation, fieldwork, literature searches, data entry, data analysis, critical analysis, political economy inquiries, and writing of instruments and manuscripts. Students must register with a specific faculty member with whom they complete a contract outlining the roles and responsibilities of the student and faculty member. A maximum of three units of undergraduate research may be used to satisfy requirements for the major. Requires professor’s and department chair’s approvals.

ITMG 499 | INDEPENDENT STUDY
Units: 1-3 Repeatability: Yes (Can be repeated for Credit)
Prerequisites: (MATH 130 with a minimum grade of C- or MATH 150 with a minimum grade of C- or MATH 151 with a minimum grade of C-)
Independent study including empirical research and written reports. A maximum of 3 units of independent study may be used to satisfy requirements for the major.