ITC 0103. Security Incident Management. 0.7 Hours.
Covers the nontechnical aspects of incident management, including establishment of a computer incident response team (CIRT) capability, investigative techniques, preservation of evidentiary materials, conducting incident postmortems, and establishing relationships with external parties. In today's business climate, quick and accurate handling of security incidents is critical. Organizations need to determine if a system outage is based on equipment or software failure or if it is truly under cyber attack. Students may receive CPP recertification credits for this course through their ASIS chapter certification office.

ITC 0301. Overview of Mainframe: z/OS Basics. 3.2 Hours.
Offers students of information systems technology an opportunity to acquire the background, knowledge, and skills necessary to begin using the basic facilities of a mainframe computer. Topics covered include the mainframe in business today, including mainframe job roles; mainframe interfaces; Job Control Language; mainframe hardware and architecture; and middleware for the mainframe. Includes lectures and lab exercises.

ITC 0304. Server Introduction to Programming OS/390 JCL. 2.4 Hours.
Demonstrates how to use z/OS and OS/390 JCL and selected utility programs. Topics include JCL statements and syntax, analyzing job output, conditional processing, procedures, modifying parameters, symbolic parameters, creating procedures, and utilities. Includes four labs and five sets of test questions.

ITC 0904. Teaching with Technology. 6.8 Hours.
Focuses on both the theory and practice of educational technology.
Blends lecture, technology instruction, and directed computer lab time in a workshop setting. Offers students an opportunity to learn about educational technology; evaluate existing technology-based curriculum aids; and, using the technology skills acquired in the course, design one of the following four projects: Web quest activity, course home page, Web page for communicating with parents, or PowerPoint tutorial.

ITC 0913. Using Social Networking and Web 2.0 Technologies in the Classroom. 6.8 Hours.
Offers students an opportunity to engage in social networking while learning the fundamentals of Web 2.0 technologies that foster cohesion, connect classrooms globally, and generate content via social interaction. Explores social networking resources that are available to educators and how these technologies can transform teaching and learning. Offers students an opportunity to learn to create professional learning networks that integrate into the classroom. Examples of social networking sites include Ning, Twitter, and wikis. Focuses on multimedia tools for teaching and learning that integrate with social networking tools. Students spend time face-to-face and online designing and sharing curriculum-based activities that incorporate these newer Web 2.0 tools.

ITC 0980. Information and Communication Technology (ICT) Literacy. 1-3 Hours.
Offers students an opportunity to use ITC tools to locate, evaluate, and use information in digital environments. Includes search engines; databases; and productivity tools such as Microsoft Word, Excel, and PowerPoint. Consists of in-class demonstrations by the instructor. Students are expected to use personal laptops and to complete in-class and out-of-class assignments.

ITC 1100. Computer Applications. 3 Hours.
Offers a beginning course in computer productivity tools for those with little or no prior experience. Introduces basic elements of organizing computer files and folders and of creating word processing documents, spreadsheets, and presentations. Requires a Windows environment.

ITC 1100. Human-Computer Interaction. 3 Hours.
Surveys human-computer interaction concepts, theory, and practice, focusing on its interdisciplinary nature. Describes the principles of human-computer interaction and the practice of user interface design. Discusses the major human information processing subsystems (perception, memory, attention, and problem solving), and introduces usability metrics and evaluation methods.

ITC 1200. Operating Systems Concepts. 3 Hours.
Introduces students to the basic structure and organization of computer operating systems. Examines the functional characteristics of major computer components and their relationship to control by software. Topics include general computer organization and configuration. Compares characteristics of different operating systems such as Windows and UNIX.

ITC 1990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

Introduces the methodologies, models, tools, and techniques used in modern system development. Topics covered include project life-cycle models, project management techniques, requirements elicitation, use-case analysis, business rules, system design approaches, and graphic modeling with the Unified Modeling Language (UML). Offers students an opportunity to analyze and document a business case; complete a system analysis; and design, model, and prepare a project plan.

ITC 2020. Digital Collaboration and Team Building. 3 Hours.
Offers a course for students with advanced skills in productivity tools who would benefit from learning about effective strategies in using online collaboration tools in order to be more effective communicating with classmates and colleagues who are not colocated. Utilizes the main functionalities of collaborative platforms. Emphasizes data gathering, analysis, and sharing.

ITC 2100. Introduction to Programming (Java). 3 Hours.
Offers a hands-on first programming course for those with no prior programming experience. Covers basic programming logic and syntax. Uses object-oriented programming concepts, including arrays, methods, classes, and instantiation. Offers students an opportunity to code stand-alone computer applications with graphical user interfaces (GUI) using modern interactive development tools.

ITC 2200. Networking Foundations. 3 Hours.
Introduces principles of computer networks, network architectures, network topologies, network protocols, and layering concepts. Addresses both theoretical aspects, such as performance modeling and analysis, and practical considerations of implementing Internet protocols.

ITC 2300. Database Management Systems. 3 Hours.
Introduces Structured Query Language (SQL). Topics include designing normalized data tables for use in a relational database management system, creating entity-relationship models, database transaction processing, and security.
ITC 2400. Web and Mobile Development. 3 Hours.
Studies modern markup languages and standards (HTML5 and CSS) for cross-platform webpages and applications. Through lectures, discussions, and hands-on projects, offers students an opportunity to learn common best practices in graphical interface design and usability for different target audiences. They then have an opportunity to apply these design skills by refining creative designs into websites through an iterative process of creating hand-drawn storyboards, then coding wireframes, adding basic web content, and finally making pages responsive so that they are suitable for a variety of mobile devices. Webpage artifacts include tables, images, links, and simple apps.

ITC 2430. E-Commerce Systems. 3 Hours.
Introduces the theory and practice of doing business on the Internet. Begins with the infrastructure that makes e-commerce possible, including Internet protocols, Internet applications, and Internet languages. Examines e-commerce software, e-commerce security issues, and e-commerce payment systems. Topics in business strategies for e-commerce include purchasing, electronic data interchange, supply chain management, virtual communities, and Web portals. Offers students an opportunity to understand how tools and strategies may be applied to e-business models, including business-to-business (B2B) and business-to-consumer (B2C). Examines international, legal, and ethical issues as they relate to e-commerce.

ITC 2990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ITC 3100. Advanced Applications Development. 3 Hours.
Extends introductory programming concepts. Focuses on developing complex end-user applications that address a business problem or opportunity. Topics include utilizing database interfaces and managing user sessions.

ITC 3150. Database Websites with PHP/MySQL. 3 Hours.
Offers students an opportunity to integrate relational databases into Web pages. Covers how to query, update, and manage MySQL databases. Emphasizes using basic PHP techniques (loops, conditionals, built-in functions) to interact with existing relational databases. All software used in the course is open source and runs on a variety of platforms.

ITC 3220. Mobile and Wireless Networking. 3 Hours.
Covers technologies used for wireless and mobile business applications. Topics include wireless network protocols, cellular phone carriers, wireless platform operating systems, and wireless security issues.

ITC 3250. UNIX Systems Administration. 3 Hours.
Covers the essential skills needed to manage the day-by-day operations of a UNIX computer system. Topics include techniques for adding new users and groups and management of the file system, focusing on access controls. Covers backup plans and techniques as well as job scheduling and basic networking in the UNIX environment. Offers students an opportunity to build shell scripting skills.

ITC 3300. Structured Query Language (SQL). 3 Hours.
Covers concepts and techniques for manipulating relational databases. Offers students an opportunity to learn to code native SQL for creating and accessing data tables, indexing, arithmetic operations, loops, arrays, multiple table processing, I/P operations, data-type conversions, and views.

ITC 3320. Data Warehousing Technologies. 3 Hours.
Offers students an opportunity to learn how organizations construct and maintain data warehouses built from operational databases. Topics include a comparison of data warehouse architectures, how to build a data warehouse, and how to structure databases for efficient data analysis.

ITC 3400. Web Design and Multimedia. 3 Hours.
Covers the history of multimedia technology, focusing on the uses of multimedia in website development. Examines the technical and design aspects of basic components of multimedia: text, audio, graphics, video, sound, animation, and virtual reality. Emphasizes the use of multimedia in user interfaces. This is a hands-on course in which students practice techniques throughout the course.

ITC 3990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ITC 4200. Network Security. 3 Hours.
Explores the theory and practice of computer security, focusing on the security aspects of multiuser systems and the Internet. Topics include cryptography concepts, firewalls; viruses; two-tier authentication; Trojan horses; password security; biometrics; VPNs; Internet protocols such as SSL, IPsec, PGP, SNMP, SSH; and others.

ITC 4210. Web Server Administration. 3 Hours.
Examines the details of web-based administration, including installation and troubleshooting techniques for various hardware and software configurations. Discusses optimization issues regarding performance, storage use, and security, from both a hardware and software perspective. Demonstrates policy and account issues, including change management, in a practical laboratory environment.

ITC 4260. Database Administration. 3 Hours.
Covers the tools and techniques used to manage information technology (IT) projects. Topics include project planning, scheduling, and budgeting and project management tools (PERT/CPM/Gantt). Discusses all phases of IT projects from proposal evaluation through postimplementation reviews. Offers students an opportunity to plan and develop a project that provides a practical application of the topics covered in class.

ITC 4500. IT Project Management. 3 Hours.
Covers management issues occurring within the field of information security. Topics include asset classification and control (protecting the most valuable information of the organization); personnel security (employee awareness); security as a part of everyday communications and operations; business continuity management; and compliance (legal, internal/external, audit, and other concerns).

ITC 4600. Information Security Management. 3 Hours.
Covers management issues occurring within the field of information security. Topics include asset classification and control (protecting the most valuable information of the organization); personnel security (employee awareness); security as a part of everyday communications and operations; business continuity management; and compliance (legal, internal/external, audit, and other concerns).

ITC 4650. Compliance and Risk Issues in Information Technology. 3 Hours.
Explores questions such as: Are your IT systems built, used and managed according to organizational policies? Are they in compliance with international, national, and local legal requirements? What are the potential risks and legal liabilities associated with your IT systems and procedures? Seeks to develop frameworks for assessing gaps between what your organization is doing and should be doing to protect the organization and its stakeholders.
ITC 4840. Preparation for Information Technology Project. 3 Hours.
Offers students an opportunity to apply their knowledge of systems analysis to develop a comprehensive written business case for an IT project. Reviews the principles of developing a business case and high-level solution model. Working closely with the instructor, students are asked to identify a technological need of actual interest for local companies, communities, or students’ workplace; research the legal, marketing, social, and organizational viability of providing a solution; and follow the systems analysis process to develop a comprehensive written proposal that documents user requirements, alternative solutions, and the selection of the most appropriate solution. The goal is to develop a formal project plan for actual execution of the solution in ITC 4850.

ITC 4850. Information Technology Project. 3 Hours.
Offers students an opportunity to apply their knowledge of systems analysis to develop a comprehensive written business case for an IT project. Reviews the principles of developing a business case and high-level solution model. Working closely with the instructor, students are asked to identify a technological need of actual interest for local companies, communities, or students’ workplace; research the legal, marketing, social, and organizational viability of providing a solution; and follow the systems analysis process to develop a comprehensive written proposal that documents user requirements, alternative solutions, and the selection of the most appropriate solution. A formal project plan is then developed for actual execution of the solution.

ITC 4950. Seminar. 1-4 Hours.
Offers an in-depth study of selected topics.

ITC 4955. Project. 1-4 Hours.
Provides students with an opportunity to demonstrate the skills they have learned throughout the program by developing an end-to-end proposal and plan for an IT application and the infrastructure it relies on. The project requires a justification, a budget, an architecture document, a presentation, and a project plan. May be repeated without limit.

ITC 4983. Topics. 1-4 Hours.
Covers special topics in information technology. May be repeated without limit.

ITC 4990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ITC 4991. Research. 1-4 Hours.
Offers students an opportunity to conduct research under faculty supervision.

ITC 4992. Directed Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic.

ITC 4993. Independent Study. 1-4 Hours.
Offers students an opportunity to undertake special research.

ITC 4994. Internship. 1-4 Hours.
Provides students with an opportunity for internship work.

ITC 4995. Practicum. 1-4 Hours.
Provides eligible students with an opportunity for practical experience.

ITC 4996. Experiential Education Directed Study. 1-4 Hours.
Draws upon the student’s approved experiential activity and integrates it with study in the academic major.

ITC 5976. Directed Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic.

ITC 5978. Independent Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic.

ITC 5984. Research. 1-4 Hours.
Offers students an opportunity to conduct research under faculty supervision.

ITC 6000. Database Management Systems. 3 Hours.
Covers the use and capabilities of modern database management systems with an emphasis on performance and reliability. After a brief review of conceptual data models and database design, the focus moves to the underlying technology—database engines, storage and indexing, memory use, the relational model, normalization/de-normalization, query processing, and SQL. Also discusses the need for and design of concurrency control, integrity, security, and recovery capabilities.

ITC 6010. Information Technology Strategy and Governance. 3 Hours.
Focuses on the strategic use of information technology (IT) from a business perspective at the enterprise level. Covers business fundamentals and a strategic framework for aligning organizational strategy, core competencies, and information systems. Covers strategic IT management, including IT policy and governance, accountability frameworks, financial analysis, risk management, and legal compliance issues.

ITC 6015. Enterprise Information Architecture. 3 Hours.
Introduces the theory, framework/model, methodology, and tools that enhance businesses and organizations’ ability to discover, access, and understand data and to integrate IT and information resources, with an ultimate goal to produce information needed to make critical decisions and support business functions. Data and information management is critical to modern businesses. Covers best practices using cases studies in a more practical, comprehensive approach to delivering the subject matter involving the application of tools.

ITC 6020. Information Systems Design and Development. 3 Hours.
Discusses the planning, analysis, design, and implementation of computer-based information systems, focusing on the methodologies and procedures used in organizational problem solving and systems development. Topics include the systems development life cycle; project management; requirements analysis and specification, feasibility and cost-benefit analysis; logical and physical design; prototyping; system validation, deployment, and postimplementation review. Additional topics may include platform and database selection and integration issues, CASE tools, end-user training, maintenance, and object-oriented analysis and design.

ITC 6025. Design for Usability. 3 Hours.
Covers the up-to-date methods that are evolving to deal with the complexity of design in the IT world. Focuses on both hard and soft design approaches, such as user-centered design, participatory design, contextual design, and ethnography. Offers students an opportunity to expand their analysis and design repertoire by developing an understanding of the role, function, and use of various design approaches and when to use which approach.

ITC 6030. Computer Systems and Networks. 3 Hours.
Introduces the basic concepts of computer systems and networks. Covers operating system services, file systems, resource management, synchronization, the concept of a process, and process cooperation and interference. Introduces networks, including network architectures, network protocols, and communication paradigms (point-to-point, multicast/broadcast, and connectionless vs. connection-oriented). Uses examples from real operating systems and networks (Unix, Linux, Windows, TCP/IP, and Ethernet) to reinforce the concepts.
ITC 6035. Information Technology Project Management. 3 Hours.
Covers the tools and techniques used to manage information technology (IT) projects. Topics include project planning, scheduling, and budgeting; project management tools (i.e., PERT/CPM/GANTT); and human resources management. Discusses all phases of IT projects from proposal writing through postrelease maintenance issues. Offers students an opportunity to plan and develop a project that provides a practical application of the topics covered in class.

ITC 6040. Informatics Capstone. 3 Hours.
Offers students an opportunity to produce a polished paper, presentation, or product that reflects their training and focus in the fields of information systems (IS) and information technology (IT). Emphasizes aspects of integrating IS systems, technical architectures, and enterprise functions. Also offers students an opportunity to incorporate issues involving research and development or business and market strategies. Strongly encourages students to create a portfolio piece that can be shown to potential employers or current supervisors.

ITC 6045. Information Technology Policy, Ethics, and Social Responsibility. 3 Hours.
Explores the policy choices, ethical issues, and legal obligations faced by organizations in the information age. Topics include intellectual property, freedom of expression, privacy, national security, impact of information technology (IT) on the work and home lives of employees, and ethical codes of conduct for IT professionals. Intended to sensitize IT managers and professionals to the issues that arise when doing business in an interconnected world and to develop an understanding of how to ethically and legally operate and use modern computer systems and networks.

ITC 6300. Foundations of Information Security. 3 Hours.
Offers an overview of the threats to the security of information systems, the responsibilities and basic tools for information security, and the levels of training and expertise needed in organizations to reach and maintain a state of acceptable security. Topics include an introduction to confidentiality, integrity and availability, authentication, encryption and access controls, intrusion detection and response, social engineering, physical security, policy formation and enforcement, legal and social issues, and risk management.

ITC 6301. An Overview of Mainframe: z/OS Basics. 4 Hours.
Offers students of information systems technology an opportunity to acquire the background, knowledge, and skills necessary to begin using the basic facilities of a mainframe computer. Topics covered include the mainframe in business today, including mainframe job roles; mainframe interfaces; Job Control Language; mainframe hardware and architecture; and middleware for the mainframe. The course includes lectures and lab exercises.

ITC 6302. Introduction to the Mainframe. 4 Hours.
Continues ITC 6301. Covers system programming on the mainframe, security on z/OS, network communications on z/OS and parallel systems. Also provides an introduction to basic ISPF interfaces and a basic understanding of the VSAM access method as it is used in the z/OS environment. The course uses a combination of lectures and labs.

ITC 6304. Enterprise Server Introduction to Programming OS/390. 4 Hours.
Covers how to use z/OS and OS/390 JCL and selected utility programs. Topics include JCL statements and syntax, analyzing job output, conditional processing, procedures, modifying parameters, symbolic parameters, creating procedures, and utilities.

ITC 6305. IT Infrastructure (Systems, Networks, Telecom). 3 Hours.
Introduces the elements of IT infrastructure—systems, networks, and telecommunications. Telecommunication fundamentals include data, voice, image, and video. Covers the concepts, models, architectures, protocols, standards, and security for the design, implementation, and management of digital networks. Discusses the essentials of local area networks (LANs), metropolitan area networks (MANs), and wide area networks (WANs).

ITC 6310. Information Security Governance. 3 Hours.
Covers the foundations for the policy, law, regulatory, and ethical accountability frameworks that information security risk managers must work within. Information security governance is an overarching consideration in all risk-management-related endeavors, and it is understood to be of supreme importance for information security since many issues have legal, regulatory, policy, and ethical considerations.

ITC 6315. Information Security Risk Management. 3 Hours.
Focuses on assessing, modeling, communicating, and addressing risk issues. Covers statistical, financial, technical, and other risk-assessment and risk-modeling techniques and tools. Explores policy and governance frameworks for information security risk management and the legal, behavioral, and social issues that arise in implementing security policies. Offers students an opportunity to develop risk assessments and present and justify mitigation proposals.

ITC 6320. Information Security Technology. 3 Hours.
Covers key information security technologies and the context needed for deploying them successfully. Security technology has come a long way, and organizations need to deploy a variety of security devices and tools, such as intrusion detection systems and firewalls, to solve the most pressing information security problems.

ITC 6325. CISA Preparation. 3 Hours.
Includes all seven domains that make up the body of knowledge covered by the CISA examination. Offers students an opportunity to obtain the knowledge and technical concepts required to achieve this certification. Topics include technical infrastructure and operations, management planning and organization of information systems, applications development, protection of information assets, business process evaluations and risk management, disaster recovery planning, and the formal audit process.

ITC 6330. CISSP Preparation. 3 Hours.
Includes all ten domains that make up the body of knowledge covered by the CISSP examination. Offers students an opportunity to obtain the knowledge and technical concepts required to achieve this certification. Topics include technical infrastructure and operations, management planning and organization of information systems, applications development, protection of information assets, business process evaluations and risk management, disaster recovery planning, and the formal audit process.

ITC 6335. Data Warehousing and Data Mining. 3 Hours.
Focuses on the management, mining, and interpretation of patterns in large databases. Offers students an opportunity to learn how organizations construct data warehouses from operational databases, about different data warehouse architectures, how to build a data warehouse, and how to structure databases for efficient data mining. Introduces data mining techniques such as rule-based learning, decision trees, association rule mining, and statistical analysis. Also covers interpretation of the mined patterns using visualization techniques.
ITC 6340. Mobile and Wireless Networks and Applications. 3 Hours.
Introduces the development of Web applications. Topics covered include
web servers, Web application servers, Web application development
methods, client-side and server-side scripting, and Web application
development techniques. Offers students an opportunity to learn to
construct and maintain a well-designed Web site and use state-of-
the-art Web application development tools and languages to develop
Web applications. Other topics include Web application security,
session management, design patterns, and reusable Web application
components.

ITC 6400. Foundations of Informatics. 3 Hours.
Introduces the fundamental properties of information, technologies,
and people within an increasingly complex infrastructure and social
system. Offers students an opportunity to learn theoretical foundations
and applications of informatics and to explore technical and social
issues—including policy choices, ethical issues, and legal obligations—
with IT applications and solutions in various specific settings, such as
business, education, healthcare, and government. Offers students a broad
perspective and understanding of informatics as both a scientific field
as well as a highly applied discipline in specific contexts that may help
direct them to future career concentrations.

ITC 6410. Fundamentals of Human Behaviors for Interactive Systems. 3 Hours.
Introduces basic principles of cognitive and social psychology relevant
to the design and use of interactive systems and applications. Offers
students an opportunity to examine topics including human perception
(e.g., how we identify, organize, and interpret information); human
memory capacity and operation (e.g., how we recognize and recall
information, and how we learn to develop skills and expertise); and
human reasoning and decision making. Understanding how the human
mind works and the limitation of our mental capacities may ultimately
provide valuable insights to apply user-centered approaches in interface
design as well as interactive systems development.

ITC 6420. Introduction to Cloud Computing Applications and
Management. 3 Hours.
Offers an overview of theoretical and practical aspects of distributed
systems and cloud computing. Cloud computing and web services are
creating a huge demand for IT professionals to manage large-scale
infrastructure and vast networks. Examines frameworks, techniques,
and existing IT solutions to manage internet services at different
levels (infrastructure, platform, and software) and to support the key
characteristics of cloud computing, including virtualization, requirement
for high reliability and security, extendability, and versatility.

ITC 6430. Enterprise Information Technology Service Management. 3 Hours.
Examines frameworks and strategic approaches for the life cycle
management of IT products—including planning, designing, developing,
delivering—and for improving the IT services from a higher-level
enterprise perspective—including managing disparate servers throughout
the organization. In the context of cloud computing, this course focuses
on the strategic management of IT infrastructure, agile IT service,
configuration, data and information security, and disaster recovery.
Explores the strategies to provide values to customers.

ITC 6504. Teaching with Technology. 4 Hours.
Focuses on both the theory and practice of educational technology.
Blends lecture, technology instruction, and directed computer lab time
in a workshop setting. Offers students an opportunity to learn about
educational technology; evaluate existing technology-based curriculum
aids; and, using the technology skills acquired in the course, design one
of the following four projects: Web quest activity, course home page, Web
page for communicating with parents, or PowerPoint tutorial.

ITC 6510. Technology Leadership and Evaluation 1. 2 Hours.
Offers students an opportunity to explore and develop the skills and
strategies necessary to effectively lead and manage technology-infused
learning activities in a twenty-first-century learning environment. Based
on the new NETS standards, this two-part course sequence engages
students in investigating the five key performance indicators: leadership
and vision; learning and teaching; productivity and professional practice;
support, management, and operations; and assessment and evaluation.
Emphasizes leadership and vision and support, management, and
operations.

ITC 6511. Technology Leadership and Evaluation 2. 2 Hours.
Offers students an opportunity to develop the skills and strategies to
effectively lead and manage technology-infused learning activities in
a twenty-first-century learning environment. Based on the new NETS
standards, part two continues to engage students in investigating the
five key performance indicators addressed in part one: leadership and
vision; learning and teaching; productivity and professional practice;
support, management, and operations; and assessment and evaluation.
Emphasizes learning and teaching, productivity and professional practice,
and assessment and evaluation.

ITC 6512. New Digital Technologies to Improve Teaching and Learning. 4 Hours.
Offers students an opportunity to investigate the use of newer
technologies to improve teaching and learning and to research effective
strategies and to report their findings. Focuses on twenty-first-century
tools for the classroom using Smart Boards, interactive response clickers,
iPods/MP3 players, and videoconferencing using webcams with Skype/
VoiceThread; onlin photo content tools such as Flickr, BubbleShare;
etc.). Students participate in an online community and create their own
Web 2.0 environment model after the K12 Online Conference Teasers.
ITC 6513. Using Social Networking and Web 2.0 Technologies in the Classroom. 4 Hours.
Offers students an opportunity to engage in social networking while learning the fundamentals of Web 2.0 technologies that foster cohesion, connect classrooms globally, and generate content via social interaction. Explores social networking resources that are available to educators and how these technologies can transform teaching and learning. Offers students an opportunity to learn to create professional learning networks that integrate into the classroom. Examples of social networking sites include Ning, Twitter, and wikis. Focuses on multimedia tools for teaching and learning that integrate with social networking tools. Students spend time face-to-face and online designing and sharing curriculum-based activities that incorporate these newer Web 2.0 tools.

ITC 6961. Internship. 1-4 Hours.
Provides students with an opportunity for internship work. May be repeated without limit.

ITC 6962. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ITC 6964. Co-op. 0 Hours.
Provides eligible students with an opportunity for work experience.

ITC 6966. Practicum. 1-4 Hours.
Provides eligible students with an opportunity for practical experience.

ITC 6970. Seminar. 1-4 Hours.
Offers an in-depth study of selected topics.

ITC 6980. Capstone. 1-4 Hours.
Offers students an opportunity to integrate their course work, knowledge, and experiences into a capstone project.

ITC 6983. Topics. 1-4 Hours.
Covers special topics in information technology. May be repeated without limit.

ITC 6995. Project. 1-4 Hours.
Focuses on in-depth project in which a student conducts research or produces a product related to the student’s major field. May be repeated without limit.

ITC 7100. Introduction to Healthcare Informatics. 3 Hours.
Presents an overview of health informatics. Focuses on the application of computerized information systems to the activities within healthcare organizations, including patient care delivery, patient records, administration, research, security, and what is needed to design and implement an appropriate health information infrastructure.

ITC 7105. Emerging Technologies in Healthcare. 3 Hours.
Focuses on emerging technologies involved in healthcare information technology. Explores hardware, categories of software, standardized language lexicons, computer-based patient records, database management systems, telehealth, decision support systems, wireless technology, and communication technologies.

ITC 7110. Legal and Social Issues in Healthcare Informatics. 3 Hours.
Explores the complex social and legal issues in today’s healthcare organizations and their impact on information systems. Examines the laws and ethics dictating systems needed to ensure legal compliance, patient confidentiality, and security.

ITC 7120. Healthcare Information Systems. 3 Hours.
Explores the administrative and research applications of computers in today’s healthcare delivery system. Discusses emerging trends in the field of healthcare informatics.

ITC 7961. Internship. 1-4 Hours.
Provides students with an opportunity for internship work. May be repeated without limit.

ITC 7962. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions.

ITC 7976. Directed Study. 1-4 Hours.
Offers students an opportunity to carry out an individual reading and research project under the supervision of a faculty member. The directed study format allows for the in-depth analysis of a particular topic not covered in-depth or the study of a subject not typically covered in the curriculum. A directed study proposal must be approved by the faculty sponsor, division head, and senior associate dean for academic affairs. May be repeated up to five times.

ITC 7978. Independent Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic.

ITC 7980. Capstone. 1-4 Hours.
Offers students an opportunity to integrate their course work, knowledge, and experiences into a capstone project.

ITC 7983. Topics. 1-4 Hours.
Covers special topics in information technology. May be repeated without limit.

ITC 7990. Thesis. 1-4 Hours.
Offers thesis supervision by members of the department.

ITC 7994. Thesis Continuation—PT. 0 Hours.
Offers continuing thesis supervision by members of the department.

ITC 7995. Project. 1-4 Hours.
Focuses on in-depth project in which a student conducts research or produces a product related to the student’s major field. May be repeated without limit.

ITC 7996. Thesis Continuation. 0 Hours.
Offers continuing thesis supervision by members of the department.