ICT 200 INFORMATION LITERACY AND CRITICAL THINKING. (3)
This course provides an introduction to the concepts and practices of information literacy. It explores how to effectively and ethically find, evaluate, analyze, and use information resources in academic and everyday-life situations. Emphasizing critical inquiry and critical thinking, this course will explore the theories and definitions surrounding the term “information literacy.” Students will put this theory into practice by developing problem-solving skills that allow them to meet information needs throughout their lifetimes. Students will gain a better understanding of how information and knowledge function in society and will discover methods of finding, accessing, evaluating, and using different information sources in an effective and ethical manner. (Same as IS 200.)

ICT 201 GENERAL INFORMATION SOURCES. (3)
Information professionals play a major role in the information life cycle by facilitating the process of finding what others have created and accumulated. Their role is: to amass collections of information resources; to develop services to help people identify and articulate their information needs; and to enable people to find, evaluate and use items of relevance. This course provides students with a basic understanding of the information environment, as well as an understanding of the differences in the information behavior, needs, and uses of various user groups. Upon completion of this course, students will be able to critically evaluate and employ information sources in different formats, and be able to communicate with users to identify and address their information needs. (Same as IS 201.)

ICT 202 TECHNOLOGIES FOR INFORMATION SERVICES. (3)
This course is designed to teach the fundamental concepts of information technology in ways relevant to professional practice in informatics and the information professions. It explores applications of computers and networks to information problems. Included are features of hardware, types of software, commercial systems and search engines. (Same as IS 202.)

ICT 205 ISSUES IN INFORMATION AND COMMUNICATION TECHNOLOGY POLICY. (3)
This course introduces students to the legal, political, and ethical issues confronting today’s information professionals and the subsequent impact of these issues on information and communication technology (ICT) policy and law development. The rapidly evolving ICT infrastructure and the global shift to an information society will provide the context for the course. Emphasis will be placed on: organizational policy development, information ethics, computer ethics, freedom of speech and expression online, information filtering, intellectual property, cyber law, and pertinent legal and political acts related to the present information and communication infrastructure.

ICT 300 ICT IN SOCIETY. (3)
This course studies the impacts of information and communication technology (ICT) on individuals and society. It examines current issues related to the flow of information in society, including the impact of technology and the development of the information economy. The role of the information profession within the context of information society issues is also explored.

ICT 301 INTRODUCTION TO DATABASES. (3)
This course is intended to give students a solid background in databases, with a focus on relational database management systems. Topics include data modeling, database design theory, data definition and manipulation languages, storage and indexing techniques, query processing and optimization, and database programming interfaces.

ICT 303 SYSTEMS ANALYSIS. (3)
This course examines and applies the principles of information systems analysis. It surveys project management, feasibility and analysis, systems requirement definition and resource allocation. It utilizes a structured systems development methodology that spans the entirety of the information system lifecycle, which starts with the conception of the need for a specific information system and ends with the implementation of that system. The course utilizes a case study approach in which students initiate the analysis and logical design of a limited-scope information system. Prereq: IS 202. (Same as IS 303.)

ICT 307 COPYRIGHT. (3)
In the age of digital information, the technology, economics, and law of intellectual property are constantly in flux. In order to continue to effectively provide access to information, ICT professionals need to play a role in managing these changes. This introductory course examines the basic conceptual elements of copyright protection, and its adaptation and application to new media and information communication technologies.
ICT Information Communication Technology

ICT 351 TECHNOLOGY SECURITY. (3)
An introduction to the various technical and administrative aspects of information security and assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system with appropriate intrusion detection and reporting features.

ICT 406 E-COMMERCE REGULATION. (3)
Business and commercial transactions conducted via electronic means are subject to complex legislation and regulation that changes frequently. The relevant legislation and regulatory mechanisms govern commercial transactions as well as any electronic marketing, such as promotional emails or online newsletters. This course provides an overview of the regulatory framework governing e-commerce transactions, relevant standards and ethical considerations, protocols to ensure consumer protection, and emergent issues relating to compliance and enforcement.

ICT 410 PRIVACY. (3)
As new information and communication technologies are developed, they increasingly raise concerns about the collection, use, storage, and sharing of personally identifiable information. This course provides an overview of privacy, privacy laws, privacy-related technologies, and self-regulatory efforts to mitigate potential privacy risks. The study of privacy will be approached from philosophical, historical, legal, policy, and technical perspectives.

ICT 550 SECURITY INFORMATICS. (3)
This course introduces students to policy concerns relating to security informatics, and highlights theoretical and practical approaches to designing secure information and communication technology (ICT) systems. It addresses key issues such as authentication, risk analysis, access control, database and network security, and information assurance.

ICT 552 CYBERCRIME AND DIGITAL LAW ENFORCEMENT. (3)
The global reach of the Internet, the low marginal cost of online activity, and the relative anonymity of users have contributed to a wide escalation in cybercrimes. Consequently, information and communications technologies (ICT) are being increasingly employed to instigate threats to global civil society. This course provides an overview of cybercrime and the digital law enforcement practices put in place to respond to them. The course will focus on the types and extent of current cybercrimes, how the justice system responds to these crimes, the various constitutional protections afforded to computer users, the law and policies that govern cybercrime detection and prosecution, and related technologies.

#ICT 596 INTERNSHIP IN ITC. (3)
Provides students with supervised work-and-learning experience in a professional environment under the direction of a University faculty member and an employee of a participating firm. One hundred forty (140) hours of student time are expected during the semester. Enrollment is contingent upon the availability of internships. Students are selected on the basis of personal qualifications, including GPA, courses taken, recommendations, and an interview.

#ICT 600 INFORMATION IN SOCIETY. (3)
An introduction to the nature of information (both utilitarian and aesthetic) in contemporary society, and to the role played by libraries and other information organizations in disseminating that information. Emphasis is on developing perspective. (Same as LIS 600.)

#ICT 601 INFORMATION SEEKING. (3)
This course provides an overview of the theory and practices of human information seeking behavior, including both basic models to understand user behavior, and techniques to effectively select, locate, evaluate, and use information to meet diverse information needs and facilitate human-computer interaction. (Same as LIS 601.)

#ICT 626 ELECTRONIC INFORMATION RESOURCES IN THE HEALTH SCIENCES. (3)
Survey of electronic information resources in the health sciences, including databases and Web sources. Discussion of relevant controlled vocabularies and their use in formulating and executing search strategies. The course also includes an evidence based health care component whereby students learn to analyze critically the biomedical literature and determine reference and research relevancy. (Same as LIS 626.)
#ICT 627 CONSUMER HEALTH INFORMATION RESOURCES. (3)
History and development of consumer health information resources; role of professional and governmental agencies in provision of consumer health information; policy issues related to provision of consumer health information. Consumer health professional literature, user information needs, user resources, and information services. Identification, selection, utilization, and evaluation of consumer health information for special populations within specialized educational and healthcare settings. Trends and issues in consumer health informatics. (Same as LIS 627.)

#ICT 630 INFORMATION RETRIEVAL. (3)
This course reviews important information retrieval (IR) theories and models; explores a brief history of IR research; and examines various IR applications. Students will get familiar with IR foundations such as document indexing or query expansion/optimization strategies, as well as understand overall system architectures for selected IR applications. Students will explore how to analyze and compare IR systems, how to select the best IR systems for particular tasks and how to design a prototype for an efficient IR system. Prereq or concur: LIS 636 or LIS 637 or LIS 638. (Same as LIS 630.)

#ICT 636 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS. (3)
A broad introduction to the use of computers as tools for creativity, communications, organizing information, and problem-solving. The basic concepts of computer hardware, software, networking, and the Internet are covered. Students also will be introduced to basic techniques for designing and creating a web site.

#ICT 638 ADVANCED WEB DESIGN. (3)
This course serves as a hands-on introduction to advanced web design techniques. Topics include the web development process, creating dynamic content, advanced layout and design, client-side and server-side scripting languages, graphic file types and optimization, web forms, multimedia, and web servers and databases. Prereq: ICT 636, or consent of instructor.

#ICT 640 HEALTH INFORMATION RESOURCE SERVICES. (3)
A survey of information agencies and health science libraries, including topics related to: the healthcare community and their information needs, information resources in the health sciences, controlled medical terminologies and classification systems, search and retrieval of information resources, issues in the management of collections and access to health libraries. (Same as CJT/LIS 640.)

#ICT 651 TECHNOLOGY SECURITY. (3)
An introduction to information security including vocabulary and terminology, threats to information systems, cryptology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is also discussed. It is expected that each student will possess some knowledge of programming, operating systems, and networking, although advanced knowledge in those areas is not necessary.

#ICT 658 KNOWLEDGE MANAGEMENT. (3)
Organizational knowledge is a valuable strategic asset. Knowledge management refers to the systematic management of an organization’s knowledge assets so that they can be leveraged for sustainable advantage. This course examines how knowledge is created, captured, organized, diffused, and implemented in an organization. Topics covered include knowledge management processes and practices, corresponding technologies, collaboration tools, and people and cultural issues. (Same as LIS 658.)