

Contents

**The College of Information Science and Technology
2009-2010 Graduate Course Descriptions**

Information Science and Systems Courses

INFO 515 - Action Research and Statistics

Surveys the basic statistical, tabular, and graphic methods as applied to decision making, requirements analyses, user studies, and implementation of change in information organizations when generalizability of results beyond the organization is not a primary concern. Focuses on formulating researchable problems, sampling, data gathering, and computer-assisted analysis of data. Develops skills for preparing reports and presentations and for reading research literatures.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 520 - Social Context of Information Professions

Surveys the professional, social, ethical, and legal issues that affect information service professionals and organizations. Addresses such topics as information law, access, ownership, and censorship. Studies professional organizations and the sociology of professions.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 521 - Information Users and Services

Relates basic theories and concepts about information behavior to contemporary provision of information services. Focuses on the conceptual structures of LIS: user communities, factors affecting use of information services and resources, and trends in supporting information services. Develops practical skills in meeting users' information needs, such as answering virtual reference questions and creating online resources.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 522 - Info Access & Resources

Presents access and applied information retrieval as the foundation for information services. Provides an overview of contemporary information sources and access methods. Focuses on the structure of tools used for satisfying users' information needs. Emphasizes

techniques for building effective search strategies for large-scale retrieval systems. Affords opportunities to evaluate sources.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 525 - School Library Programs & Svcs

Introduces the field of school libraries/media centers. Examines the context in which K12 information programs and services exist; explores key concepts related to information work in schools; explains the major functions of the school-based information professional; and provides opportunities for students to determine their interest in the field.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 526 - Information, Innovation & Technology in Advanced Nursing Practice

This course is designed to provide an in-depth introduction to information systems and technologies that support practice and improve patient care and outcomes. Development of information management and technology skills (which meet ANA Informatics Competencies) will be incorporated throughout the course. Content is directed toward assisting the student in understanding the relationship between patient care and complex information and data issues involved in clinical practice.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following Major(s):

Nursing

INFO 530 - Foundations of Information Systems

Introduction to concepts and applications of Information Systems (IS) and Information Technology (IT) as applied throughout library and information science. Topics include the structure of information systems, hardware and software concepts, basic principles of system analysis and design, and contemporary applications of computers in organizational environments.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 532 - Software Development

Provides a hands-on introduction to software development. Includes programming concepts and a series of programming exercises done by students working in pairs or in small groups. Also covers general concepts and issues in software development to help students understand why creating high quality software is very difficult.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 540 - Perspectives on Info Systems

Examines various types of information systems and the ways in which these systems support activities of individuals and organizations. Investigates application architectures that occur commonly in information systems. Provides an overview of knowledge domains that comprise the information systems discipline.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 503 Minimum Grade: C or INFO 530 Minimum

Grade: C) and (INFO 532 Minimum Grade: C or INFO 601 Minimum

Grade: C) and INFO 605 Minimum Grade: C and (INFO 534 Minimum

Grade: C or INFO 614 Minimum Grade: C) and BUSN 501 Minimum

Grade: C

INFO 552 - Intro to Web Design for Info Orgs

Introduction to creating websites that incorporate interactive web services to support users in information organizations. Students learn to establish websites that meet usability, accessibility and intellectual property standards, via composition of text and graphic files, and use of scripts for interactive application to support community information resource needs.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 560 - Introduction to Archives I

Provides an introduction to the theory and practice of archives, including an overview relating to the elements of an archival program and the role and work of archivists. Focuses on the functions of the archives, such as acquisition, appraisal, arrangement and description, preservation, reference, outreach, and technology in archives.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 561 - Introduction to Archives II

Continues the introduction to archival theory and practice begun in Introduction to Archives I. Provides additional depth in several areas, including appraisal, arrangement and description, focusing on model and standards. Addresses legal, ethical, cultural, and political issues as well as the range of historical and contemporary archival formats.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 560 Minimum Grade: C

INFO 604 - Object-Oriented Prgmg Info Sys

This course provides a hands-on introduction to object-oriented programming language. The language will be a class-based object-oriented programming language in common usage in industry. The class will cover classes, objects, constructors and destructors, access control, inheritance, and use of object libraries and language specific features.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 603 Minimum Grade: C or INFO 532 Minimum

Grade: C

INFO 605 - Intro to Database Management

A first course in database management systems. Covers database design, data manipulation, and data-base integrity. Emphasizes concepts and techniques related to the entity-relationship model and relational database systems. Discusses normalization up to third normal form and commercial query languages.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum

Grade: C

INFO 606 - Advanced Database Management

Examines both traditional database systems and recent advances in database systems. Topics include formal treatment of normalization and denormalization, extended entity-relationship models, advanced query processing techniques, query optimization, physical database design and indexing, and object-oriented database systems.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 601 Minimum Grade: C or INFO 532 Minimum Grade: C) and INFO 605 Minimum Grade: C

INFO 607 - Applied Database Technologies

Covers principles and techniques related to data warehousing and online analytic processing (OLAP) as well as advanced database programming. Discusses dimensional modeling, OLAP, aggregation, ETL, physical data warehouse design, optimization techniques such as partitioning, indexing, star schema query optimization, and materialized views. Advanced database programming includes stored procedures, functions, and triggers.

Credits: 3.00

College: Information Sci & Technology

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Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Co-Requisites: INFO 620

Pre-Requisites: INFO 606 Minimum Grade: C

INFO 608 - Human-Computer Interaction

This course focuses on the design and evaluation of human-computer interfaces covering such topics as task analysis techniques for gathering design information, iterative design through prototyping, and formative and summative usability testing; theoretical foundations of HCI and cognitive modeling of user interactions; the integration of HCI techniques into the software development life cycle and the use of user constraints to generate new interaction designs.

Credits: 3.00

College: Information Sci & Technology

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Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C

INFO 610 - Analy of Interactive Systems

This course focuses on the evaluation of human-computer interfaces covering such topics as heuristic evaluation, inspection and design reviews, cognitive walkthroughs, ethnographic observation, user testing, interviews, and questionnaires; the usability engineering lifecycle, comparison of usability evaluation methods, selection or design of appropriate methods, reporting usability evaluation findings, and the development of user interface standards and guidelines.

Credits: 3.00

College: Information Sci & Technology

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Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 608 Minimum Grade: C

INFO 611 - Design of Interactive Systems

Focuses on interactive system design methods in common use covering such topics as interactive design, iterative design, usability analysis, prototyping and evaluation, mental models, conceptual models, interaction styles, the use of guidelines; normative, descriptive, and formative approaches to work analysis; modeling user's activities, defining and validating requirements, presenting interactive system designs, and the theoretical foundations underlying the design of interactive systems.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 608 Minimum Grade: C

INFO 612 - Knowledge Base Systems

Introduces the concepts, principles, and techniques of knowledge base systems, with a focus on implementation of a working expert system. Presents the expert system development life cycle with a focus on analysis and conceptual modeling techniques.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 503 Minimum Grade: C

INFO 613 - XML and Databases

Introduces background and basics of XML and XML Schema. Focuses on storing and extracting XML data in Relational Database Systems. Covers the process of modeling real-world problems in XML. Investigates native XML database management systems. Discusses current issues in XML and XML storage research.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 604 Minimum Grade: C and INFO 605 Minimum Grade: C

INFO 614 - Distrib Comput & Networking

Presents the fundamentals of data communications, networking, and distributed computing technologies. Focuses on the broad foundational coverage of key technologies as well as the key concepts in network planning, design, and management. Major topics include network models, data and voice communications, local-area and wide-area technologies, IP networks and their applications, internetworking (with an emphasis on the Internet), client/server systems, and distributed computing applications.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C

INFO 616 - Computer-Suppt Co-Op Work

Examines human and technical issues and concepts of computer-supported cooperative work (CSCW). Covers topics including the ways groups work in the networked organization, intelligent work flow, various types of CSCW technology, CSCW software design and implementation issues, and future directions of this technology.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 620 Minimum Grade: C and INFO 614 Minimum Grade: C

INFO 617 - Intro to System Dynamics

Introduces simulation, particularly of business processes, using the principles of system dynamics.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 620 Minimum Grade: C

INFO 618 - Cptr-Support Collab Learning

Examines socio-technical issues and concepts of computer-supported collaborative learning (CSCL). Covers how individuals and groups learn in classes, teams and collaborations with computer support; theory of collaborative knowledge building; CSCL software design, implementation and evaluation issues, and future directions. Review of current research, literature, theories, issues, technologies, and methodologies.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Pre-Requisites: INFO 608 Minimum Grade: D

INFO 620 - Info Sys Analysis & Design

Offers an advanced treatment of systems analysis and design with special emphasis on object-oriented analysis and design techniques based on the Unified Modeling Language (UML). Discusses major modeling techniques of UML including use-case modeling, class modeling, object-interaction modeling, dynamic modeling and state diagrams and activity diagrams, subsystems developments, logical design, and physical design.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 605 Minimum Grade: C and INFO 608 Minimum Grade: C

INFO 621 - Developing Multimed Info Systm

Introduces concepts and practices associated with the creation, utilization, and evaluation of multimedia for information delivery. Includes the basics of digitizing and manipulating text, sound, and video/still images while engaging in a theoretical exploration of the impact of interactive digital media on human cognitive and communication processes. Covers multimedia design and implementation with an emphasis on creating interactive multimedia information systems.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 503 Minimum Grade: C

INFO 622 - Content Representation

Focuses on fundamental decisions in designing subject access systems and alternative approaches to indexing. Explores current issues in

content representation: principles of subject analysis; natural language vs. vocabulary control; manual, computer-assisted, and automatic indexing; faceted indexing and classification systems; image indexing and retrieval; indexing and the World Wide Web. Includes evaluation of indexer consistency and indexing system performance.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C

INFO 624 - Information Retrieval Systems

Covers the theoretical underpinnings of information retrieval to provide a solid base for further work with retrieval systems.

Emphasizes systems that involve user-computer interaction. Covers aspects of information retrieval including document selection, document description, query formulation, matching, and evaluation.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C

INFO 625 - Cognition & Info Retrieval

Applies cognitive processing and concept formation to the case of humans interacting with information storage and retrieval systems, including automated systems. Links theoretical models of cognitive processes to research studies that examine actual information-seeking behavior.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C

INFO 626 - Language Processing

Studies the problems and techniques of automating human language use and understanding. Introduces different annotations of human language and examines how spoken language differs from written language. Includes syntactic inference, parsing, semantic interpretation, and natural language planning, and discusses how to combine analyses of spoken language with analyses of written language.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 601 Minimum Grade: C or INFO 532 Minimum Grade: C) and INFO 605 Minimum Grade: C

INFO 627 - Reqmts Engineering & Mgmt

Provides students with an opportunity to explore and experience methodologies, tools, and techniques for eliciting, analyzing, specifying, and managing requirements in modern software development organizations. Focuses on the intersection of requirements engineering, strategic IS and business planning, and business process reengineering. Students will also learn about change management in requirements engineering context in response to a fast-paced, changing world. Upon completion of the course, each student should have new skills and insights that are immediately applicable to the performance of the requirements engineering project function.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 620 Minimum Grade: C

INFO 628 - Info Sys Implementation

Addresses issues involved in implementing an information system in the context of a real organization, including ensuring quality in the delivered system. Focuses on the detailed design, coding, test, and distribution aspects of software system implementation.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 603 Minimum Grade: C and INFO 620 Minimum Grade: C

INFO 629 - Concepts in Artificial Intell

Introduces the concepts, principles, and techniques of artificial intelligence (AI), with emphasis on its application to information systems.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):
Graduate Quarter
Must be enrolled in one of the following College(s)/School(s):
Information Sci & Technology
Pre-Requisites: INFO 620 Minimum Grade: C

INFO 630 - Evaluation of Info Systems

Focuses on the evaluation of software and software system development. Covers a variety of methodologies, techniques, and tools for measuring both software and software development attributes in modern software development organizations. Includes both graphical approaches for representing these attributes and statistical approaches for modeling various software relationships.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 620 Minimum Grade: C

INFO 631 - Info Technology Integration

Focuses on integration of information technologies from an organizational perspective. Coverage includes IT Product and service selection and evaluation, impact of emerging technologies, standards, and vendor strategies. Emphasizes financial considerations including return on investment, time cost of money, depreciation, and system life.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C) and (INFO 532 Minimum Grade: C or INFO 601 Minimum Grade: C) and INFO 605 Minimum Grade: C and (INFO 534 Minimum Grade: C or INFO 614 Minimum Grade: C) and BUSN 501 Minimum Grade: C

INFO 632 - Info Svcs Design & Eval

Offers perspectives on the design and evaluation of information services and products. Considers the distinguishing features of information organizations and units; the nature of service effectiveness; service quality; market positioning; client-provider relations; needs analysis; information valuation; information economics; information in organizations; and the introduction of information services innovations.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):
Information Sci & Technology
Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C

INFO 633 - Information Visualization

Introduces concepts and principles of information visualization from both theoretical and practical perspectives. Emphasizes the development of critical thinking and problem solving abilities in the context of information visualization. Provides exposure to current information visualization tools.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

INFO 634 - Data Mining

This course introduces the concepts and principles of knowledge discovery in databases (KDD), with a focus on the techniques of data mining and its function in business, governmental, medical or other information-intensive environments.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 605 Minimum Grade: C and (INFO 629 Minimum Grade: C or INFO 612 Minimum Grade: C)

INFO 635 - Scholarly & Professional Comm

Provides an overview of traditional and contemporary communication patterns and the generation and use of information in research, scholarly, and professional communities. Considers models of communication and information-seeking behavior underlying the development of these communities, formal and informal communication networks, and the structure of the literatures produced.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C)

INFO 636 - Software Engineering Process I

Focuses on behaviors and activities of individuals developing software with a disciplined software engineering approach. Provides hands-on experience in which students complete programming exercises using a

defined software engineering process. Requires students to plan, estimate, measure, and analyze their work, and to define, analyze, and improve development processes and create process documentation.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 601 Minimum Grade: C or INFO 532 Minimum Grade: C) and INFO 630 Minimum Grade: C and INFO 638 Minimum Grade: C

INFO 637 - Software Engr Process II

Focuses on behaviors and activities of teams developing software with a disciplined software engineering approach. Provides hands-on experience in which students complete team activities using a defined software engineering process. Covers topics including planning and estimating for team projects, reviews and inspections, standards, software reuse, and configuration management.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 636 Minimum Grade: C

INFO 638 - Software Project Management

Focuses on first-line management of software system development. Covers major themes including estimation (software cost factors, estimation models, and risk management), planning (work breakdown, scheduling, staffing, resource allocation, and creation of a project plan), and execution (team building, leadership, motivation, process tracking, control recovery, and communication within and outside the project).

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 620 Minimum Grade: C

INFO 640 - Managing Information Orgs

Applies theories and techniques of management to libraries, information centers, and information enterprise, concentrating on political processes, leadership, communication, human resources, organizational structure, decision making, planning, and control. Also includes elements of project management.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C) and (INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C) and (INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C) and INFO 515 Minimum Grade: C and INFO 520 Minimum Grade: C

INFO 643 - Information Services In Orgs

Examines various organizational structures and the influence of structure and environment on patterns of information processing and utilization by organizations. Emphasizes the role of function driving the demand for information. Focuses on the structure of information services, resources, and technology as a means of attaining organizational goals. Includes not only traditional business data but all forms of knowledge and emphasizes strategic and tactical uses.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 644 - Knowledge Assets Mgt in Orgs

Focuses on the nature, acquisition, and use of knowledge assets and their strategic role in organizations. Examines the role of information professionals in organizing, managing, and providing access to these important assets using formal and informal knowledge management systems.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Pre-Requisites: INFO 643 Minimum Grade: C

INFO 646 - Information Systems Management

Addresses information technology-enabled change and policy issues in the management of information systems (IS). Stresses systems development, staffing and organization, technology infrastructure, project selection, justification and funding, and data. Studies the issues and their resolution in the context of an IS plan. Emphasizes communication about the issues to senior management.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology
Pre-Requisites: INFO 620 Minimum Grade: C

INFO 648 - Healthcare Informatics

The course presents an overview of all aspects of healthcare informatics, including medical, nursing and bioinformatics. It provides an introduction to the applications of information systems in a variety of healthcare environments, including education, research and clinical settings. It includes extensive reading and critical discussion of relevant professional research literature.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 649 - Library Programming

Provides an overview of the broad range of cultural, educational, and social library programming initiatives available for children, adolescents, and adults in academic libraries, public libraries, and school library media centers. Teaches community analysis, planning and evaluation. Emphasizes the collaborative nature of developing and implementing library programs.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C) and (INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C)

INFO 650 - Public Library Service

Surveys information services provided through public libraries, with attention to governmental and funding issues, determinants of use, extending services to non-users, and cooperation among libraries.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C) and INFO 520 Minimum Grade: C

INFO 651 - Academic Library Service

Examines the role of library service in higher education, with emphasis on problems of organization, administration, services, and the relationship of the library to the overall educational program.

Credits: 3.00

College: Information Sci & Technology
Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 500 Minimum Grade: C or INFO 511 Minimum Grade: C

INFO 652 - Internet Info Resource Dsgn

Offers a hands-on introduction to creating sophisticated websites to support users' information needs. Covers website design, implementation, and evaluation. Requires the student to establish a website, compose its text and graphic files, use scripts for interactive application, install a search engine, and create reports on usage.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 511 Minimum Grade: C

INFO 653 - Digital Libraries

This course introduces research and development in the world of digital libraries. Focuses on intellectual access to digital information resources.

Topics include foundations and architectures of digital libraries, searching and resource organizing, knowledge representations and discovery, metadata and standards, interfaces and information visualization, intellectual property rights and electronic publishing.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 624 Minimum Grade: C or INFO 652 Minimum Grade: C or INFO 552 Minimum Grade: C

INFO 655 - Intro to Web Programming

Provides a hands-on workshop in programming for Internet information systems using an appropriate programming language (Java is used currently). Covers fundamental concepts such as object-oriented programming, client-server programming, multi-threaded programming, graphical user interface design, and application development.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 532 Minimum Grade: C or INFO 601 Minimum Grade: C

INFO 656 - Internet Info Systems II

This course provides additional design and programming skills for the development of Internet information systems with an emphasis in server-side programming. It covers various web servers, applications servers, and other server technologies, as well as tools and methods for creating dynamic web-based information systems. It discusses issues related to the development of server-based information on the web.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 655 Minimum Grade: C

INFO 657 - Digital Library Technologies

Introduces technologies that enable the design and implementation of digital libraries. Focuses on hands-on activities relating to content description technologies (such as XML) systems technologies, and user interface technologies. Students learn through building components of digital libraries collaboratively.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 652 Minimum Grade: C or INFO 552 Minimum Grade: C) and INFO 653 Minimum Grade: C

INFO 658 - Information Architecture

Introduces fundamental concepts, methods and theories in Information Architecture for virtual, physical, and hybrid worlds. Focuses on organization, representation, and navigation of conceptual space. Topics include foundations, Web design, cognitive aspects, search, interaction design, knowledge organization, and user experience.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 652 Minimum Grade: C or INFO 552 Minimum Grade: C

INFO 660 - Cataloging & Classification

Introduces and provides intensive practice in the fundamentals of library cataloging and classification with primary focus on modern printed materials, but also includes reference to other media. Instruction on critical reading, interpretation, and use of current professional standards and documentation for the creation of MARC records. Encompasses discussion of relevant historical and theoretical issues in the construction of contemporary bibliographic databases.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 522 Minimum Grade: C or INFO 510 Minimum Grade: C

INFO 661 - Cataloging & Classif II

Introduces and provides intensive practice in the fundamentals of cataloging nonprint library materials (sound recordings, films/videos, computer files, microforms, graphics), serials, books printed before 1800, and archival/manuscript collections. Provides instruction in RLIN searching. Examines major problems and routines affecting cataloging with copy. Discusses issues related to library automation, actual uses of catalog records, and the emergence of new media.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 660 Minimum Grade: C

INFO 662 - Metadata & Resource Description

Introduces the critical roles played by metadata for resource description and discovery. Provides instruction on application and implementation of current metadata schemes and tools. Provides practice in creating metadata records, analyzing the usage of metadata elements and vocabulary schemes, and evaluating the metadata quality of digital repositories.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 622 Minimum Grade: C or INFO 660 Minimum Grade: C

INFO 663 - Library Technical Services

Focuses on management, policy, and organizational issues related to the administration of technical services in libraries. Includes acquisitions, copy cataloging, original cataloging, serials control,

circulation, and preservation. Emphasizes management in an automated environment where traditional methods are being supplanted by new technologies and related organizational changes.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 660 Minimum Grade: C

INFO 664 - Library Automation

Provides an overview of information technology applications in library settings, focusing on underlying concepts and management issues.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 503 Minimum Grade: C or INFO 530 Minimum

Grade: C) and (INFO 510 Minimum Grade: C or INFO 522 Minimum

Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C)

INFO 665 - Collection Development

Introduces the basic steps of collection development, including community analysis, preparation of policy, criteria for selection of materials, acquisition, weeding, and evaluation. Explores a variety of related issues, including the impact of electronic access on collection development.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C) and INFO 520 Minimum Grade: C

INFO 666 - Serial Literature

Provides an overview of serial publishing, including selection, acquisition, handling, and bibliographic control of serials. Covers current trends in serials management, including organization of serials work, manual and automated methods of serials control, resource sharing, and issues in serials public service.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum

Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C)

INFO 667 - Research Collections

Examines the work of subject specialists in large libraries with multinational collections in history, literature, the social sciences, and area studies. Surveys acquisition arrangements, resource-sharing plans, and collection evaluation techniques. Introduces foreign and international resources, including national and trade bibliographies, government documents, archival collections, and microforms, in both English and foreign languages.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 515 Minimum Grade: C and INFO 520 Minimum

Grade: C and (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C) and (INFO 503 Minimum Grade: C or INFO 530 Minimum

Grade: C)

INFO 668 - History of the Book

Examines the metamorphosis of written text from the Western medieval manuscript to the printed book to present-day digital media. Topics include methods of production, intellectual and graphical content, social impact, and the role of church, state, and economic factors.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum

Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C)

INFO 669 - Special Collections

Focuses on the functions of a curator of special collections. Such collections include both modern and historical collections of printed materials, manuscripts and archival collections, and collections of allied materials, including works of art. Gives special attention to the research uses of such materials together with reference to exhibitions, departmental publications, specialized reference sources, collection management, acquisitions, conservation, preservation, funding development, and donors.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C) and (INFO 510 Minimum Grade: C or INFO 522 Minimum

Grade: C)

INFO 672 - Resources in the Humanities

Studies the major information resources in the fields of religion, philosophy, the performing arts, the visual arts, language, and literature. Emphasizes user needs, bibliographic organization of the materials, collection building, and the provision of reference and information services.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum

Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C)

INFO 673 - Resources in Social Sci

Studies major information resources in the social sciences, including history, geography, political science, sociology, anthropology, psychology, demography, economics, and education. Emphasizes bibliographic organization, collection building, user needs, and reference service.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum

Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C)

INFO 674 - Resources in Science & Tech

Studies major information resources in pure and applied sciences, including the physical and biological sciences, engineering and technology, and interdisciplinary subjects. Emphasizes bibliographic organization, collection building, user needs, and reference service.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum

Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C)

INFO 675 - Medical Bibliography

Covers the major types of reference tools, including representative titles in the basic medical sciences and clinical specialties, the history and development of medical bibliography, introduction to online searching, and analysis of the reference interview and of typical reference questions. Covers print and electronic reference tools with an emphasis on the integration of electronic tools (Internet, database and CD-ROMs) into the reference collection. Range of materials includes representative titles from collections in hospital libraries, academic health science libraries, consumer health centers, and special libraries (including corporate and non-profit). Covers medical reference information, including the analysis and synthesis of available resources.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 500 Minimum Grade: C or INFO 511 Minimum

Grade: C

INFO 677 - Resources in Business

Focuses on meeting user needs for specific types of business information using strategies for identification, evaluation, selection, and use of specific sources. Sources include topical dictionaries and directories; indexes and abstracts; and numeric and full-text databases. Emphasizes the use of value-added print and electronic resources to meet user needs for information related to companies, industries and markets; corporate and international finance and investments; economic and demographic statistics; and one or more of the following topics: accounting, human resources, insurance and risk management, intellectual property, information systems, operations and logistics.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum

Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum

Grade: C)

INFO 678 - Competitive Intelligence

Focuses on the analysis of existing information in order to uncover hidden knowledge about the environment internal and external to (or competing with) an organization. Examines how to analyze and integrate various types of information (patents, financial, production, market); how to use the new knowledge in strategic, tactical and

operational decision-making; how to produce reports; and the ethics of competitive intelligence.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 643 Minimum Grade: C

INFO 679 - Information Ethics

Presents the philosophical foundations of applied ethics and technology with primary focus on the uses and abuses of information, human moral agency in relation to new information and communication technologies, and the meaning of social responsibility in the global information society, including the concepts of global information justice and human rights.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 680 - US Government Information

Studies the nature of United States federal government documents and techniques for their acquisition, organization, and use.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C) and (INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C)

INFO 681 - Legal Research

Introduces the fundamentals of legal research, including sources and research strategies.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C) and (INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C)

INFO 683 - Resources for Children

Acquaints prospective professionals with the resources published for use by and with children in grades K to 8. Provides an opportunity to develop basic standards for evaluation of resources. Includes recent research concerning children and the central role of resources in the development of their reading/viewing/listening interests and tastes.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 684 - Resources for Young Adults

Acquaints prospective professionals with the materials intended for use by and with young adults. Provides an opportunity to develop basic standards for evaluation of materials and to learn about recent research concerning young adults and their information needs, reading interests, tastes, and development.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C)

INFO 688 - Instr Role Info Specialist

Examines the instructional role of the information professional. Emphasizes the planning, implementation, and evaluation of instruction for the purpose of information education.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C)

INFO 701 - Career Integrated Education I

This course provides relevant off-campus employment for students wanting to strengthen their work skills. It is particularly useful for students changing careers, for international students hoping to gain work experience in the U.S., and for students seeking to work abroad.

Credits: 3.00

College: Information Sci & Technology
Department: College of Info Science & Tech
Restrictions:
May not be enrolled in one of the following Program(s):
Must be enrolled in one of the following Program Level(s):
Graduate Quarter
Must be enrolled in one of the following College(s)/School(s):
Information Sci & Technology

INFO 702 - Career Integrated Education II

This course is a continuation of INFO 701. It provides relevant off-campus employment for students wanting to strengthen their work skills. It is particularly useful for students changing careers, for international students hoping to gain work experience in the U.S., and for U.S. students seeking to work abroad.

Credits: 3.00
College: Information Sci & Technology
Department: College of Info Science & Tech
Restrictions:
May not be enrolled in one of the following Program(s):
Must be enrolled in one of the following Program Level(s):
Graduate Quarter
Must be enrolled in one of the following College(s)/School(s):
Information Sci & Technology
Pre-Requisites: INFO 701 Minimum Grade: C

INFO 710 - Information Forensics

Focuses on the principles and practices of the forensic investigation and analysis of information in modern organizations and distributed information systems. Includes studies of information processes, events, time measurement, casual factors, information volatility, technical and procedural forensic methods, rules of evidence and case law.

Credits: 3.00
College: Information Sci & Technology
Department: College of Info Science & Tech
Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C

INFO 712 - Information Assurance

Describes how to protect an organization's information resources and assets within national and international context. Topics include organizational policies and assurance requirements, relationships between assurance and security, and information assurance planning assessment and management.

Credits: 3.00
College: Information Sci & Technology
Department: College of Info Science & Tech
Restrictions:
Must be enrolled in one of the following Program Level(s):
Graduate Quarter
Must be enrolled in one of the following College(s)/School(s):
Information Sci & Technology
Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C

INFO 714 - Information Systems Auditing

Discusses modern principles and practices of information systems and technologies auditing. Topics include IT governance, information systems risks and controls, the audit process, auditing standards, legal

and ethical issues, auditing of IT development and planning assessment and management process, auditing standards, legal and ethical management, and forensic auditing.

Credits: 3.00
College: Information Sci & Technology
Department: College of Info Science & Tech
Restrictions:
Must be enrolled in one of the following Program Level(s):
Graduate Quarter
Must be enrolled in one of the following College(s)/School(s):
Information Sci & Technology
Pre-Requisites: INFO 503 Minimum Grade: C or INFO 530 Minimum Grade: C

INFO 720 - Data Mining in Bioinformatics

Provides an introduction to data mining in bioinformatics, focusing on methods and applications in biological datasets. Topics include: DNA/protein sequence analysis and alignment techniques, data mining approaches to protein and gene expression analysis, and life science database management.

Credits: 3.00
College: Information Sci & Technology
Department: College of Info Science & Tech
Pre-Requisites: INFO 605 Minimum Grade: C

INFO 731 - Organization & Social Issues in Healthcare Informatics

Presents an overview of sociotechnical issues in healthcare informatics, focusing on patient care and biomedical research settings. Deals with the human, social, and technological aspects of healthcare IT. Focuses on the role of information professionals in applied healthcare IT settings.

Credits: 3.00
College: Information Sci & Technology
Department: College of Info Science & Tech
Restrictions:
Must be enrolled in one of the following Program Level(s):
Graduate Quarter
Must be enrolled in one of the following College(s)/School(s):
Information Sci & Technology
Pre-Requisites: INFO 648 Minimum Grade: C

INFO 740 - Digital Reference Svcs

Presents an overview of digital reference services with hands on experience. Prepares students to become managers of digital reference services by exploring question answering services, developing virtual collections, exploring the state of the art in digital reference, and discussing issues related to digital reference services.

Credits: 3.00
College: Information Sci & Technology
Department: College of Info Science & Tech
Restrictions:
Must be enrolled in one of the following Program Level(s):
Graduate Quarter
Must be enrolled in one of the following College(s)/School(s):
Information Sci & Technology
Pre-Requisites: (INFO 510 Minimum Grade: C or INFO 522 Minimum Grade: C) and (INFO 511 Minimum Grade: C or INFO 521 Minimum Grade: C)

INFO 750 - Archival Access Systems

Introduces students to the creation, maintenance, and evaluation of archival access systems. Covers the theoretical concepts that underlie archival description and their evolution into the current set of electronic information systems. Reviews current descriptive standards. Addresses user needs and different formats.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 561 Minimum Grade: C

INFO 751 - Archival Appraisal

Introduces students to the theory and practice surrounding the core function of selection and appraisal of records and papers enduring value. Focuses on the development of methodologies as well as approaches used in different settings, for different audiences, and for various formats of material.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 561 Minimum Grade: C

INFO 756 - Digital Preservation

Explores concepts, principles, and practice for preserving digital information resources. Topics include selection, organization, and access for materials in trusted repositories. Both technological and policy perspectives are addressed.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 503 Minimum Grade: C or INFO 530 Minimum

Grade: C) and (INFO 652 Minimum Grade: C or INFO 552 Minimum

Grade: C)

INFO 780 - Special Topics

May be repeated for credit if topic varies.

Credits: 2.00 to 12.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 782 - Issues in Informatics

Examines recent developments in a selected informatics area as a case study. Focuses on research results and leading edge application in information technology in practice. Helps students prepare for success in information science and technology fields. Addresses issues and methods for maintaining technical knowledge throughout a professional career.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: (INFO 503 Minimum Grade: C or INFO 530 Minimum

Grade: C) and (INFO 532 Minimum Grade: C or INFO 601 Minimum

Grade: C) and INFO 605 Minimum Grade: C and (INFO 534 Minimum

Grade: C or INFO 614 Minimum Grade: C) and BUSN 501 Minimum

Grade: C

INFO 799 - Independent Study

Provides individual investigation in special areas of information science and technology not regularly covered in the courses offered. Topic for study must be approved, in advance of registration, by the faculty adviser, the instructor involved, and the associate dean. May be repeated for credit if topic varies.

Credits: 2.00 to 12.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 811 - Applied Research Methods

Provides an overarching understanding of several applied research methodologies that are relevant to decision makers, practitioners and scholars. Stresses identification of the appropriate research methodology for a given problem, as well as the advantages and disadvantages of each. Emphasizes real-world factors associated with the research process.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 812 - Research Statistics I

This course provides the knowledge and tools necessary for conducting and understanding many types of empirical studies in the field of information science. It examines the fundamentals of descriptive and inferential statistics, and hypothesis testing. It covers analysis of variance and introduces regression. Students gain practical experience with a statistical package such as SPSS.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program Level(s):

Continuing Education

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 813 - Quantitative Methods

Introduces research designs and methods of quantitative analysis for various problems in information systems, management of information resources, and scholarly and professional communication. Presents statistical techniques through packaged computer programs.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program Level(s):

Continuing Education

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 816 - Qualitative Research Methods

Provides doctoral students with an opportunity to explore and experience qualitative research methods, tools, and techniques, with emphasis on historical, philosophical, and theoretical underpinnings of the qualitative perspective. Concerned with analysis of the social construction and reproduction of human activity. Explores interpretive research methods that try to analyze social sense-making.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Pre-Requisites: INFO 694 Minimum Grade: C

INFO 830 - Issues in Information Studies

This doctoral seminar course examines a current research topic in library information science or information systems. Students may repeat the course in different research topics.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 861 Minimum Grade: C and INFO 863 Minimum Grade: C

INFO 861 - Topics in Information Science

This course introduces students to the community of practice in information science research by a broad introduction to a common body of knowledge. It helps prepare students to join in the collective work to expand that body of knowledge. It covers a variety of the most important texts and papers in the field of information science. Must have doctoral student status or master student with permission of instructor

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

May not have the following Classification(s):

INFO 863 - Topics in Information Systems

This course introduces students to the community of practice in information systems research by a broad introduction to a common body of knowledge. It helps prepare students to join in the collective work to expand that body of knowledge. It covers a variety of the most important texts and papers in the field of information systems. Must have doctoral student status or master student with permission of instructor.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

May not have the following Classification(s):

INFO 865 - Sem in Research Methodology

Centers around the creation of a research proposal. Emphasizes problem identification, research problem statement, hypothesis construction, ethnographic methods of inquiry, validity, and reliability. Must have doctoral student status or master student with permission of instructor.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

May not have the following Classification(s):

Pre-Requisites: INFO 515 Minimum Grade: C

INFO 866 - Seminar Info Sys Research

Examines interdisciplinary information systems theory and research. Combines quantitative and qualitative methods in such areas as conceptual modeling, simulation, and human factors research. Considers research literature in both experimentation and design. Must have doctoral student status or master student with permission of instructor.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

May not have the following Classification(s):

INFO 891 - Field Study in School Library/Media

Practicum and seminar for students seeking certification as school library/media specialists. Includes online component and supervised field experiences in selected school library/media centers. Students discuss and apply concepts and techniques for teaching and learning, information access and delivery, and program administration learned throughout the School/Library Media concentration.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 525 Minimum Grade: C

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 998 - Ph.D. Dissertation

Provides individual work on an approved topic leading to a doctoral dissertation in information science and technology.

Credits: 1.00 to 12.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 893 - Practicum I

Provides relevant professional experience that will strengthen work skills. Particularly useful for students without prior work experience, career changers, or those exploring possible work environments. Associated academic coursework provides the opportunity to more deeply explore professional issues, and places the practical work experience within the context of larger workplace trends.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

INFO 894 - Practicum II

Provides relevant professional experience that will strengthen work skills. Particularly useful for students without prior work experience, career changers, or those exploring possible work environments. Associated academic coursework provides the opportunity to more deeply explore professional issues, and places the practical work experience within the context of larger workplace trends.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

Must be enrolled in one of the following Program Level(s):

Graduate Quarter

Must be enrolled in one of the following College(s)/School(s):

Information Sci & Technology

Pre-Requisites: INFO 893 Minimum Grade: C

INFO 895 - Workshop

Considers special issues and problems in information science and technology in a series of short courses and workshops.

Credits: 3.00

College: Information Sci & Technology

Department: College of Info Science & Tech

Restrictions:

May not be enrolled in one of the following Program(s):