IS Fall 2021 Course List

LIS 503LEC [24800] Archives & Records: Practice/Principals
This course is a survey of the principles and practices of archives and records management. It will address the decisions archivists and records managers make while adhering to professional standards, values and ethics. We will discuss how the fields of archives and records management complement each other, how they differ, and how they function within the larger field of information science and with allied professions. We will also address how archival practice informs and is informed by society, emphasizing the history and development of records and recordkeeping systems and the institutions and communities responsible for them. Through lectures, foundational readings, discussion, independent research, and hands-on practice, students will learn how archivists and records managers apply complex theoretical concepts in their work to preserve and provide access to materials.

LIS 503LEC [24810] Information Visualization
This course provides an introduction to the art and science of information visualization. You will gain familiarity with a range of visualization techniques for communicating relational, spatial, temporal, and other data. Through hands-on practice, you will learn to apply principles from visual arts, psychology, and statistics to the design and evaluation of information visualizations.

LIS 503LEC [23859] Design Thinking
Introduces the principles and techniques of different design theories and models. Through a case study framework that encourages research, discussion, and reflection, students will learn how these theories and models may be applied to a variety of real-world information contexts.

LIS 503LEC [17399] STEM Learning & Rural School Libraries
This course will be an exploration of the significant changes occurring in the digital research environment and the resulting evolution of how scholarly information is communicated. Particular emphasis will be given to understanding how libraries and information organizations need to understand and manage these changes. The course will include examinations and lively discussions of contemporary issues like commercial publisher exploitation, the tenure system, the peer review system, copyright, open access, open educational resources, digital repositories, large data sets, bibliometrics, altmetrics, bibliographic management, and the burgeoning importance of scholarly communication professionals. Several web-based scholarly collaboration and communication tools will be explored, and the concept of scholarly communication as a genre will be discussed. This will be a highly interactive class; it will include online discussions and the analyses of several real-world case studies. The course is intended for students who will work in academic, public, or special libraries, or in other research-focused information centers.

LIS 503LEC [21721] Hist & RI of Libs as Soc Actrs
This course covers the development of libraries and the roles these institutions play within their service communities. Increasingly, libraries of all kinds have come to play a social role as social actors, change agents, and as "places", both physical and virtual, that enable to development of social capital. This course examines the development of libraries, information & communication technologies (ICTs), and the role of information access in the many societal "revolutions" of human history, with emphasis on the societal impact of library growth in the United States. Current trends and problems are also examined from a societal and historical perspective.

LIS 507LEC [18571, 18378, 18377] Information Life Cycle

Introduces students to the nature of information and ways in which its structure and representation affect information retrieval. The course lays the theoretical foundation for understanding and applying a range of concepts and techniques for both creating and using traditional, modern, and future information systems. Major knowledge organization, metadata, and retrieval systems are introduced and students are guided in their practical application. The course emphasizes the importance of the user in system design. Students are introduced to the roles of information preservation, information security, and digital curation. Barriers to equity of access and retrieval resulting from cultural, linguistic, and gender biases are also examined.

LIS 508LEC [18379, 18562, 2402] Information Users and Uses

Information services and systems must be designed on the basis of information behavior, i.e., what is known about how people think about, access, evaluate, and use information. This course introduces students to that knowledge base, to prepare them to design and deliver systems and services that match the needs of diverse information users.

LIS 514LEC [20303] Conceptualizing and Representing Information

Covers principles and practical methods of document representation such as abstracting, indexing, and thesaurus construction. Topics include pre- and post coordinate indexing, concept analysis, and vocabulary control. Student work focuses on construction and evaluation of indexes and thesauri. Examines the effects of indexing practices and information storage and retrieval and the impact and implications of advancing technologies.

LIS 534LEC [16917] Resources & Services for Child

A study of children's literature and other related media applicable to children. Includes an overview of the history of children's literature, child development, and other factors that affect the selection and evaluation of children's materials in public and school libraries. Students will learn to evaluate and promote materials according to their various uses, both personal and curricular, and according to the needs of the individual child. Course content is delivered through lectures, readings, class exercises, and authentic learning experiences.

LIS 538LEC [18380] Pedagogy for SLMS

A study of pedagogical practices and concepts that underpin successful student learning. Course content and activities will address the domain areas of planning and preparation, the classroom environment, instruction, and professional responsibilities. Teaching strategies and learning theories in the context of the library media center in the school setting (LMC) are addressed.

LIS 560LEC [20302] Emerging Technologies for Library Studies

Library and information professionals are often required to learn and determine how emerging technologies can best be used to meet client needs. This class will guide students in examining technology trends of the 21st century such as mobility, openness, and literacy. Students will examine how emerging technologies promote new ways of thinking about information and productivity. Students will be expected to be familiar with IT and online instruction.

LIS 564LEC [24903] Web Design and Development

Introduces the principles, techniques, technologies, and tools of front-end Web design and development with an emphasis on hands-on experience. Topics include the Web architecture, Web design guidelines and evaluation, HTML, CSS, client-side programming, and Web content management. Students will gain basic knowledge and skills of designing, developing, and evaluating small to medium sized Web sites, which are commonly seen in libraries and other information agencies. By successfully completing the course, students shall be ready for entry-level jobs of Web design and development. Previous experience with computer programming is not required.

LIS 566LEC [10264] Information Search
Emphasis is twofold: the conceptual understanding of basic information retrieval system structures and the practical aspects associated with searching of a variety of digital information resources. Topics covered include IR system structure, user modeling, resource selection, search strategies and tactics, evaluation, ethics in searching, and the role of information professionals in the online world. Students also develop practical search skills through exercises using a variety of tools including commercial databases as well as the Web.

LIS 567LEC [20737] Government Information
Covers the production and dissemination of government information on a wide range of subjects at the international, federal, state and local government levels and its use by diverse users for many purposes. Considers freedom of information and intellectual property as they relate to government information. Emphasizes professional practice in information services for United States federal government information.

LIS 575LEC [18446, 18381] Introduction to Research Methods
Study of research, problem-solving, and evaluation of services in library, media and information environments. Students will learn to identify and define problems requiring systematic analysis and to review, evaluate, synthesize, appreciate, and use existing reports of research. Study includes librarianship and the philosophy of science, theory and hypothesis testing. Problems include evaluation of circulation, effectiveness, collections and overlap, online services, budgeting allocation, status of librarians, salaries, citation analysis, bibliometrics. Not a statistics course; background in mathematics and statistics is not required.

LIS 577LEC [21845] Scholarly Communication
This course explores the significant changes occurring in the digital research environment and the resulting evolution of how scholarly information is communicated. Particular emphasis is given to understanding how libraries and information organizations need to understand and manage these changes. The course examines contemporary issues like commercial publisher exploitation, the tenure system, the peer review system, copyright, open access, open educational resources, digital repositories, large data sets, bibliometrics, altmetrics, bibliographic management, and the burgeoning importance of scholarly communication professionals. Web-based scholarly collaboration and communication tools are explored, and the concept of scholarly communication as a genre is discussed.

LIS 589LEC [24024] Music Description & Access
Students will become familiar with the bibliographic control of music through class sessions, assignments, and hands-on cataloging of various formats of music and music-related materials. Topics in theory and practice include descriptive cataloging, subject analysis, and authority data/controlled vocabularies. Emphasis will be placed on scores and sound recordings; additional work with videos, digital media, archival material, and other formats may be explored. Pre-requisite : LIS 588 - Music Librarianship I.