

LIS Library and Information Science

- LIS 510 CHILDREN'S LITERATURE AND RELATED MATERIALS. (3)**
A survey of children's literature, traditional and modern. Reading and evaluation of books with multimedia materials with emphasis on the needs and interests of children. Covers media for use by and with children from preschool through grade six.
- LIS 514 LITERATURE AND RELATED MEDIA FOR YOUNG ADULTS. (3)**
A study of literature and related materials for use with young people in grades 6-12. Emphasis is placed on the special characteristics and needs of young people and the evaluation of materials for this age group.
- *LIS 539 INTRODUCTION TO MEDICAL INFORMATICS. (3)**
This course is designed to introduce the interdisciplinary field of medical informatics to health information professionals. Medical Informatics is a developing field that essentially seeks to apply information and computing technologies to improve all aspects of healthcare, including patient care, research, and education. During the semester we will explore a number of topics central to understanding the field, including: the nature of biomedical information, the electronic medical record, the role of information and computing technologies to support clinical decision making, healthcare and informatics standards, information retrieval, system analysis and technology assessment, and essential issues of information technology in medical education and medical ethics. By the end of this Web-based course, students are expected to be able to understand broad aspects of the field and can use this as a foundation for further education, training, and work in health information professions. (Same as CJT 539.)
- LIS 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 ICT 600.)
- LIS 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 ICT 601.)
- LIS 602 INFORMATION REPRESENTATION AND ACCESS. (3)**
This course provides an introduction to principles and practices of information description, organization, access, and retrieval by examining the representation of information through metadata records, indexes, and abstracts, as well as the operations, standards, tools, systems of categorization, bibliographic systems and methods of organizing and retrieving information sources.
- LIS 603 MANAGEMENT IN LIBRARY AND INFORMATION SCIENCE. (3)**
An introduction to the basic elements of management and how these are applied to the effective administration of information systems. Focus will be placed on two major roles in a system, the person who is supervised as well as the manager or supervisor. Examination of the functions of planning, organization, staffing and controlling as well as the theories of management and the effective use of these in an information system.
- LIS 604 LIBRARY AND BOOK HISTORY. (3)**
Development of libraries and books from earliest time to the present with special reference to their relationship to contemporary social, economic, cultural and political trends. Emphasis is given to American library and book history.
- LIS 605 INFORMATION POLICY AND TECHNOLOGY REGULATION. (3)**
This course explores the socio-cultural, economic and political issues confronting communication and information professionals and the transformative impact of these issues on information policy development. The rapidly evolving communication and information infrastructure and the global shift to an information society will provide the context for the course. Within this context, emphasis will be placed on issues of access, which includes, universal service, intellectual freedom, intellectual property rights, privacy, security, advocacy, equity, and the role of library and information professionals and organizations in policy formulation.
- LIS 608 METHODS OF RESEARCH IN LIBRARY AND INFORMATION SCIENCE. (3)**
Basic tools, techniques and methods of research. Consideration is given to the role and purpose of research in library and information science and its relationship to research in other disciplines. Includes critical evaluation of current research in library and information science and the development of a research proposal. Prereq: LIS 601, LIS 602 or consent of instructor.

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- LIS 609 CURRENT PROBLEMS IN LIBRARY AND INFORMATION SCIENCE. (3)**
A seminar which examines current philosophical and managerial issues in library and information science. Focus is on the analysis, origins, evaluation and current status of these issues. Prereq: Eighteen hours of graduate study in LIS or consent of instructor.
- LIS 610 LIBRARY MATERIALS AND LITERATURE FOR CHILDREN. (3)**
A survey and historical study of library materials and literature for children up to grade 6. Students will engage in extensive reading, and in the evaluation of books and some multimedia materials. Basic programming will be explored.
- LIS 611 CRITICAL ANALYSIS OF CHILDREN'S LITERATURE. (3)**
Advanced study of book evaluation, literary criticism, children's book publishing, awards, and current trends in the field. Individual projects require extensive critical reading. Prereq: LIS 610 or LIS 614 or consent of instructor.
- *LIS 613 INFORMATION RESOURCES AND SERVICES FOR CHILDREN. (3)**
A study of effective programming for children and young adults. Emphasis is placed on oral presentations. Literature-based activities and community outreach.
- LIS 614 LIBRARY MATERIALS AND LITERATURE FOR YOUNG ADULTS. (3)**
A study of literature and related materials for use with young people in grades 7-12. Emphasis is placed on the special characteristics and needs of young adults and the evaluation of materials for this age group.
- LIS 615 PROSEMINAR IN COMMUNICATION AND INFORMATION SYSTEMS. (3)**
This course is an introductory graduate-level survey of theory and research on human communication mediated by communication and information technologies. This course is designed to cover the areas not typically addressed in traditional courses of mass or interpersonal communication, including theory and research on the use of computers and electronic communication over a variety of communication and information systems. Prereq: Graduate standing or consent of instructor. (Same as CJT 615.)
- LIS 621 INTRODUCTION TO INFORMATION SERVICES. (3)**
This course provides an introduction to the theory and practice of information services, which are defined broadly as the activities in which information professionals engage to connect people to the information they need, including information needs assessment, direct information provision, information literacy instruction, and intermediation for all stages of the information search process. Emphasis is placed on the roles played by information professionals to help diverse users define and negotiate their information needs, navigate user-system interfaces, formulate effective search strategies for information retrieval, and evaluate and select information. Attention is also given to the skills necessary to plan for, implement, and evaluate the delivery of information services in a wide variety of organizational contexts. The ethical foundations of information services are also considered. Prereq: LIS 601.
- LIS 622 SOCIAL SCIENCE INFORMATION. (3)**
Examination of important issues and developments relating to creation, packaging, dissemination and use of social science information by various segments of society. Emphasis on understanding information needs of those who use social science information and information systems, source and services available to satisfy those needs. Prereq: LIS 601 or consent of instructor.
- LIS 623 ADVANCED REFERENCE SERVICES. (3)**
This course provides advanced study of the theory and practice of information services, which are defined broadly as the activities in which information professionals engage to connect people to the information they need, including information needs assessment, direct information provision, information literacy instruction, and intermediation for all stages of the information search process. Emphasis is placed on the structure of information, information seeking, and information sources within disciplines. Students will be prepared to help advanced users define and negotiate their information needs, navigate user-system interfaces, formulate effective search strategies for information retrieval, and evaluate and select information. Ethical issues in information services are also considered. Prereq: LIS 601, LIS 622.
- LIS 624 INFORMATION IN SCIENCE AND TECHNOLOGY. (3)**
The content and structure of bibliographic and other information resources in science and technology. A consideration of formal and informal communication in science and technology with emphasis on sources and services in agriculture, astronomy, biology, chemistry, mathematics, natural resources, zoology, and other closely related subjects. Prereq: LIS 601 and LIS 602 or consent of instructor.

***LIS 625 INFORMATION LITERACY INSTRUCTION. (3)**

This course examines the theory and practice of instruction provided in information organizations to develop clients' abilities to effectively locate, evaluate, select and use information. Attention is given to the nature of information literacy, systematic instructional design, needs assessment, methods of instruction, teaching and learning preferences, and the evaluation of learning and programs. This course is interdisciplinary and draws on theory from Library & Information Science, Instructional Communication, Education and Cognitive Psychology. We will examine and criticize various instructional models, plan for and deliver instruction in both in-person and computer-aided venues, learn various methods for assessing teaching and learning, and discuss the managerial and political aspects of instructional delivery in various information agency contexts, with a special emphasis on those in academic settings. Prereq: LIS 601 or consent of instructor.

#LIS 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 ICT 626.)

LIS 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 ICT 627.)

LIS 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 ICT 630.)

LIS 634 INFORMATION ARCHITECTURE. (3)

The course introduces the concepts and practices of information architectures (IA) for a Web site within the context of the organization it serves. It aims to acquaint students with principles and process of information architecture for user-centered design of websites. It also provides students the opportunity to develop practical skills related to the design of information organization and navigation systems. The course prepares students for the companion technical course of "content management systems" where they will apply the theories and techniques studied in this course to the implementation of a fully functional website.

LIS 636 FOUNDATIONS OF INFORMATION TECHNOLOGY. (3)

A study of the computing fundamentals necessary for the understanding and use of information technology. Focus is on examining computer systems in concept and practice, which is essential to information professionals. Topics include how computers represent, process, store and retrieve information; how operating systems control these processes, interpret commands, present the user interface, and run applications; how databases are designed and created; how general understanding of programming processes and productivity software skills is important in a variety of professional contexts. Productivity applications include the Office suite, Internet applications and web publishing, and database management systems.

LIS 637 INFORMATION TECHNOLOGY. (3)

Study of computer and communication technology used in modern information storage and retrieval systems. Consideration also given to managing microcomputer services, hardware evaluation and selection, and system security. Prereq: Consent of instructor. (Same as CJT 637.)

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LIS 638 INTERNET TECHNOLOGIES AND INFORMATION SERVICES. (3)

A course examining the structure, development and evolution of the Internet; network protocols and client/server architecture issues; Web page design, authoring, and evaluation; the use of the Internet as an information storage and retrieval system; recent advances in HTML and scripting languages; and Internet related social issues such as censorship and copyright. Prereq: LIS 636 or consent of instructor. (Same as CJT 638.)

LIS 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/ICT 640.)

LIS 641 LAW LIBRARIANSHIP. (3)

A study of the materials of legal research and reference work. Emphasis is placed on the methods of effective research and the actual use of legal materials in the solution of practical reference problems. The selection, cataloging, classification, and storage of materials in a law collection are considered. The specialized requirements of law librarianship and law library administration are treated. Prereq: LIS 601 and LIS 602 or consent of instructor.

LIS 642 ORAL HISTORY. (3)

This course is an introduction to oral history as a research methodology and its role in library and archives collections. It is designed for persons intending to conduct oral history interviews to expand library and archival collections. It is also for persons responsible for the archival management of oral history collections. The course examines how oral history projects are initiated, how projects are administered, how interviews are conducted, and how oral history interviews are preserved and made available to researchers. The course will also explore the use of technology in making oral histories available to researchers on the Web. Students will gain practical experience in oral history interviewing and related aspects of oral history, such as transcribing, editing, and publishing oral histories. Taught essentially same as EPE 669.

LIS 643 ARCHIVES AND MANUSCRIPTS MANAGEMENT. (3)

This course is designed to cover the management, care, and servicing of manuscript and archival material. Attention will also be given to criteria for building an archival/manuscript collection in a repository and to the description and interpretation of its holdings in guides and catalogs for the use of researchers. Prereq: LIS 602 or consent of instructor.

LIS 644 ADMINISTRATION OF SCHOOL LIBRARY MEDIA CENTERS. (3)

Examines the philosophy behind current national and state guidelines for library media programs and addresses the roles of library media professionals in program and resource management in the K-12 school setting. Students will work on their individual exit portfolios and plan a practicum experience to meet requirements for performance-based certification by the Kentucky Department of Education. Prereq: May be taken concurrently with last requirements or following completion of all requirements (with the exception of LIS 676) for certification as school media librarian.

LIS 645 PUBLIC LIBRARIES. (3)

Examines historical development of the public library and its roles in society. Topics considered include the environment of public libraries; organization and management; information needs of client groups; information resources and services provided to clients; and trends developments in public libraries. Prereq: LIS 601 and LIS 602 or consent of instructor.

LIS 646 ACADEMIC LIBRARIES. (3)

Examines historical development of academic libraries and their roles in higher education. Topics considered include the environment of academic libraries, organization and management needs of client groups, information resources and services provided clients; and issues, trends, and developments in academic libraries. Prereq: LIS 601 and LIS 602 or consent of instructor.

LIS 647 CURRENT TRENDS IN SCHOOL MEDIA CENTERS. (3)

An intensive study of trends in school media centers with emphasis on research, technology, and the role of the school media specialist in the school curriculum.

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- LIS 648 TECHNOLOGY IN THE SCHOOL MEDIA CENTER. (3)**
Consideration of new and emerging educational technologies that could be integrated into school curriculum. Includes hands-on experiences as well as critical reading and discussion on current issues relating to educational technology and the role of the media specialist in technology integration.
- LIS 650 TECHNICAL PROCESSING SYSTEMS. (3)**
A survey of manual and computer-based technical processing systems in libraries. Consideration given to circulation, acquisitions, cataloging and serial control systems. Trends and developments in technical processing, files and records management, and technical processing procedures and activities are examined. Prereq: LIS 602 or consent of instructor.
- LIS 653 PRESERVATION MANAGEMENT. (3)**
Considers the many facets of paper, non-print, and digital preservation with the aim of providing the knowledge and awareness necessary to be able to incorporate preservation principles, concepts, and practices into all aspects of library and information center management. Includes hand-on experience.
- LIS 655 ORGANIZATION OF KNOWLEDGE I. (3)**
Theories and practice of bibliographic description and subject analysis. Covers the organization of both print and electronic information, including use of Anglo-American Cataloging Rules, Dewey Decimal Classification, Library of Congress Classification and Library of Congress Subject Headings. Prereq: LIS 602 or consent of instructor.
- LIS 656 ORGANIZATION OF KNOWLEDGE II. (3)**
In-depth coverage of the theories and practice of bibliographic description and subject analysis. Covers the organization of both print and electronic information and authority control. Emphasis is on problems in practice, special case studies, current issues and future trends of description, subject analysis and online authority control. Prereq: LIS 655, or consent of instructor
- LIS 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 ICT 658.)
- LIS 659 COLLECTION DEVELOPMENT. (3)**
Intellectual and administrative aspects of building, maintaining and evaluating library collections. Topics include: library cooperation; national standards; the writing and implementation of collection policies; strategies of selection and evaluation; contemporary publishing and the book trade.
- LIS 665 INTRODUCTION TO DIGITAL LIBRARIES. (3)**
This course focuses on the theoretical, technological, human factors and evaluative components of digital library (DL) research and practice. Students will read and discuss literature on DLs, review existing technologies and proof-of-concepts implementation projects, and work as a group to develop a prototype but operational DL. This course is foundational for students wishing to engage seriously in the world of digital librarianship. Prereq: LIS 602, LIS 636.
- LIS 668 INFORMATION SYSTEMS DESIGN. (3)**
Study of concepts and methods of information system design and development with particular relevance to library and information center applications. Emphasis is given to modeling of system functions, data, and processes of computer-based information systems including the development of small scale information systems. Prereq: LIS 636 or consent of instructor. (Same as CJT 668.)
- LIS 672 PRACTICUM. (3)**
Practicum in a library or other information-related organization. Student assumes entry level professional duties and responsibilities in an operational setting under the close supervision of an information professional. Requires minimum of 140 hours of experiential learning, and the completion of a multimedia presentation/portfolio under the direction of the course coordinator. Prereq: Completion of 18 hours of graduate work in library and information science and consent of course coordinator.

LIS 676 SCHOOL MEDIA PRACTICUM. (1-12)

Supervised experience at the elementary and secondary levels in school library media centers. Required for students seeking certification as school/media librarians in Kentucky. Experience will be under the joint supervision of college faculty and cooperating media librarians. Prereq: Admission to Teacher Education Program and consent of instructor.

LIS 690 SPECIAL TOPICS IN LIBRARY AND INFORMATION SCIENCE. (1-3)

Intensive study of one aspect of library and information science under the leadership of an authority in the area.

LIS 695 INDEPENDENT STUDY IN LIBRARY AND INFORMATION SCIENCE. (3)

Opportunities for directed study in subjects or problems of interest to a student. Observation and research required, and a written report describing the work accomplished. Prereq: Consent of instructor.

LIS 748 MASTER'S THESIS RESEARCH. (0)

Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

LIS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE. (1-6)

May be repeated to a maximum of 12 hours.