

CURRICULUM

Program Curriculum – Digital Libraries with Elective Courses in Library Services for Diverse Work Settings

Employment Environments and Opportunities

The student completing courses with the generalist focus along with the combination of digital technology content management skills and techniques will have a number of career opportunities. Following this program of coursework will prepare graduates to succeed in a wide range of positions in both private and public organizations. It enables students to participate in the design and development of information services and systems, provide leadership and demonstrate theoretical knowledge of information science and its application in different fields.

LIS CORE COURSES	SLIS 5000. Information and Knowledge Professions SLIS 5200. Information Organization SLIS 5600. Information Access & Knowledge Inquiry
GRADUATE ACADEMIC CERTIFICATE Courses to earn the Certificate	SLIS 5206. Information Retrieval Design SLIS 5223. Metadata and Networked Information Organization and Retrieval SLIS 5740. Introduction to Digital Libraries SLIS 5960. Information Architecture
ELMS REQUIRED COURSES	SLIS 5960. Digital Curation & Data Management Fundamentals SLIS 5714. Website Development
GUIDED ELECTIVE COURSES: Library Services for Diverse Work Settings	SLIS 53__ . Management, Administration and Specialized Information Services (Select One Type of Library Course) SLIS 5__ . Knowledge Organization, Access and Retrieval (Select Two Courses)

A. Core Courses - Required core in library and information sciences (Total: 9 credit hrs.)

1. SLIS 5000. Information and Knowledge Professions. 3 credit hrs.
History, roles and scope of the information and knowledge professions. Basic concepts and issues including impact of information technology on the individual, intellectual freedom, privacy and diversity. Legal and ethical aspects of managing information and knowledge organizations. Course activities emphasize team building and leadership skills.
2. SLIS 5600. Information Access & Knowledge Inquiry. 3 credit hrs.
Epistemological foundations of information use. Basic principles and techniques of information access and knowledge inquiry. Survey of research in information seeking behavior and user interaction. Introduction to systems of access, search, retrieval, and navigation, as well as reference collection management and services. Study of evaluation methods for resources in all formats, services and user satisfaction.
3. SLIS 5200. Information Organization. 3 credit hrs.
Principles, concepts and practices of information organization and presentation.

Concepts and problems of human information behavior, classification and categorization related to information organization. Database technology, structure and design. Standards for information organization, data representation and information exchange. Systems for organizing information and facilitating information access in various information use environments.

B. Graduate Academic Certificate in Digital Content Management (12 credit hours)

The Digital Content Management Graduate Academic Certificate (GAC) prepares information professionals to meet the challenges of managing the life cycle of digital assets regardless their types and formats or their method of delivery. The courses provide theoretical foundation and conceptual tools through structured learning experiences and supervised class projects. Students will learn basic knowledge and technical skills necessary to manage digital content, build applications.

1. SLIS 5740. Introduction to Digital Libraries. 3 credit hrs.

This course introduces the student to current research and the conceptual, practical, and technical issues in digital libraries. Theoretical foundations, technical infrastructures, knowledge organization, collection development, users & services, evaluation, as well as social, cultural, and policy issues are discussed. Students read papers and discuss related issues, evaluate a digital library of their choice, and write an in-depth term paper or conduct a class project.

2. SLIS 5206. Information Retrieval Design. 3 credit hrs.

Study of design considerations in computer-based information retrieval systems, including conventional inverted file systems using Boolean logic and automatically indexed vector-oriented systems. Evaluation of information systems in the light of user and system criteria. Prerequisite(s): SLIS 5200 or consent of department.

3. SLIS 5223. Metadata and Networked Information Organization and Retrieval. 3 credit hrs.

Representation, organization and retrieval of networked information resources (NIR) using various forms of metadata. Examination and evaluation of key metadata schemes for representing and organizing NIR. Identification and use of metadata creation tools to build and manage metadata repositories. Explore implications for retrieval of NIR through search engines that exploit metadata. Prerequisite(s): SLIS 5200 or consent of department.

4. SLIS 5960. Information Architecture. 3 credit hrs.

This course introduces students to the basic concepts and components of Information Architecture, within the context of end-user and organizational needs. The goal of the course is to provide students with an understanding of the intellectual technologies necessary to design and implement effective and cost-efficient information technologies such as digital libraries, database systems, and a range of other web-accessible resources, as well as collaborative computer systems in organizational

environments. This course focuses on the following elements of information delivery and knowledge systems: Organization of information, understanding and documenting user's needs for web-based applications, human-computer interfaces, and issues related to usability and accessibility.

C. ELMS Required courses (Total: 6 credit hrs.)

Digital Curation

1. SLIS 5980. Digital Curation & Data Management Fundamentals. 3 credit hrs.

This foundation course introduces fundamental concepts, practices, procedures, processes, and vocabulary for the entire curation lifecycle, from creation through appraisal, ingest, and storage, to access and reuse. It covers: history and background; concepts and principles; community standards and practices; challenges and issues; and basic techniques for curating and managing digital data. This course will be taught by co-PI Dr. Martin Halbert, the founder of the MetaArchive Cooperative, an international community-based digital preservation network that serves 48 member libraries on two continents.

2. SLIS 5714. Website Development. 3 credit hrs.

Designed to meet the needs of government, education and industry for entry-level personnel capable of establishing a web site, composing text and graphic files for the site, identifying, writing and installing scripts for the site for interactive applications. Special attention is given to OSHA accessibility regulations.

D. Guided Electives: Courses in Library Services for Diverse Work Settings to apply digital content management skills and techniques. (Total: 9 credit hrs.)

Completion of **three** courses (9 hours) from the categories listed below to be selected with the guidance of the academic advisor.

1. **Management, Administration and Specialized Information Services (3 hours)**

SLIS 53__ Type of Library Management Course - One of the following "type of library" courses

- a. SLIS 5320. Public Libraries. 3 hours. Problems of organization and management of public libraries and urban/rural library systems; their resources, functions and services. Related municipal, regional and state information agencies and services. Federal and state programs; development and trends. Individual investigation of major issues and topics.
- b. SLIS 5330. Academic Libraries. 3 hours. Problems of organization and management of university, college and community college libraries; their resources, functions and services. Federal and state programs; development and trends. Individual investigation of major issues and topics.
- c. SLIS 5360. Special Libraries and Information Centers. 3 hours. Study of selected types of special libraries, information systems and related organizations and their

historical development, administration, resources, functions and services.

Students are introduced to the problems of operating small libraries with unusual clientele, consulting and the development of new information centers.

2. Knowledge Organization, Access and Retrieval (6 hours)

- a. SLIS 5205. Information Indexing, Abstracting and Retrieval. 3 hours. Analysis of indexing and retrieval systems. Manual and machine indexing and abstracting. Computer-based systems. File organization and maintenance; information representation and coding; storage and retrieval technology; natural language processing; thesaurus construction; searching strategies. Systems design, operation and evaluation.
- b. SLIS 5210. Organization and Control of Information Resources I. 3 hours. Descriptive cataloging and subject analysis of different kinds of information resources. Anglo-American Cataloging Rules; Dewey Decimal and Library of Congress classification systems; vocabulary control; subject headings; principles and techniques of catalog construction, maintenance and use; information indexing and retrieval; use of online databases; representative research, problems and practice.
- c. SLIS 5220. Organization and Control of Information Resources II. 3 hours. Development of cataloging and classification systems. Problems in classification and subject headings. Thesaurus construction and special classification systems. Treatment of serial publications, audiovisual resources and other special materials. Use of online databases.
- d. SLIS 5400. Information Resources Development. 3 hours. Principles and methods of evaluating, selecting and acquiring different kinds of information resources. Development and maintenance of information collections. Bibliographic tools and online databases. Searching and verification; publishers and publishing; censorship issues; acquisition processes. Representative research, problems and practice.
- e. SLIS 5615. Electronic Databases and Information Services. 3 hours. Development and use of online information services. Study of available databases in different fields. Conducting online searches; client interviews; developing, promoting and evaluating online services; current trends. Supervised practical experience.
- f. SLIS 5620. Information and Access Services in the Humanities. 3 hours. Information resources, methods, needs and services in the humanities. Comparative study of individual fields. Communication patterns and bibliographic organization. Role of professional organizations and government. Representative problems and practice.
- g. SLIS 5630. Information and Access Services in Science and Technology. 3 hours. Information resources, methods, needs and services in science and technology. Comparative study of individual fields. Communication patterns and

- bibliographic organization. Role of professional organizations and government. Representative problems and practice.
- h. SLIS 5640. Information and Access Services in the Social Sciences. 3 hours.** Information resources, methods, needs and services in the social sciences. Comparative study of individual fields. Communication patterns and bibliographic organization. Role of professional organizations and government. Representative problems and practice.
 - i. SLIS 5646. Information and Access Services in Business. 3 hours.** Introduction to information service for business as a discipline and in practice. Characteristics of information service to a specific, diverse user community. Introduction to and development of print and electronic forms of information relevant to the business community's information needs
 - j. SLIS 5647. Legal Information and Access Services. 3 hours.** Introduction to the bibliographic organization of legal literature and to techniques of legal research, including the use of automated legal research databases. Lectures, readings, seminar discussions and problem sets focus on U.S. legal materials, primarily using federal law publications as examples.
 - k. SLIS 5660. Government Information and Access Services. 3 hours.** Information resources and services of the United States government; their nature, use, acquisition and organization. Includes some study of the information resources and services of municipal and state governments, the United Nations and selected foreign countries.
 - l. SLIS 5685. Information Resources and Services in Culturally Diverse Communities. 3 hours.** Issues in the provision of information services to ethnic cultural minority communities. Study of the needs and cultural milieu of these communities. Materials and methods for serving these groups.

