School of Information and Library Science (GRAD)

Contact Information
School of Information and Library Science
http://sils.unc.edu

Gary Marchionini, Dean

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The goals of the M.S.I.S. are to enable students to contribute to the design, development, and maintenance of information systems; to understand theories of information science, including social, political, and ethical implications of information system design; and to lead the development of new technologies and applications relating to the storage, retrieval, and delivery of information.

With an M.S.I.S. degree, students find jobs in areas that include (among others) information system analysis design, development, and support; database design and administration; user experience design (including interface design and usability testing); Web site design and management; social media; information resource and knowledge management; information security; and competitive intelligence.

The goals of the M.S.L.S. program are to help students become leaders in the dynamic world of libraries and information organizations as they change to address 1) the needs of communities that are becoming more diverse, 2) an increasing multiplicity of information formats and technologies, and 3) a global perspective toward knowledge barriers and access. Students should be proficient in the theories and practices used in libraries, archives, and other cultural institutions, including effective communication across differing ethical, cultural, political, social, and emotional perspectives.

Typical job titles for graduates include library director, archives manager, records manager, digital librarian, documents librarian, cataloger, public and reference services librarian, school librarian, acquisitions and collection manager, children's librarian, database administrator, special collections librarian, academic library subject specialist, and systems librarian.

The 48 credit hours of coursework is selected, in consultation with the student's faculty advisor, from the information and library science curriculum or, as appropriate, from related subject fields in other schools and departments of the University or at neighboring universities. A master's paper or project (INLS 992) is also required of each master's student. A theme within the curriculum for both master's degrees is evidence-based practice, which requires students to interpret and apply existing research to their professional situations, as well as to design and conduct their own research where necessary data is not otherwise available.

Graduate certificates within either the M.S.L.S. or the M.S.I.S. are available in the areas of: bioinformatics, clinical information science, digital curation, digital humanities, interdisciplinary health communication, nonprofit leadership, and international development. A program leading to a certificate as a school library media coordinator is also available as part of the M.S.L.S.

The School of Information and Library Science participates in several dual or cooperative degree programs. These include dual-degree programs with:

- the Kenan–Flagler Business School, which combines the master of business administration (M.B.A.) degree and the M.S.I.S. degree
- the Department of Health Policy and Management, Gillings School of Global Public Health, which combines the master of health administration (M.H.A.) degree with either the M.S.L.S. or M.S.I.S.
- the School of Nursing, which combines the master of science in nursing (M.S.N.) with either the M.S.I.S. or M.S.L.S. degree
- the Department of Art, which combines the master of science in art history (M.A.) with either the M.S.I.S. or M.S.L.S. degree
- the School of Government, which combines the master of public administration (M.P.A.) with either the M.S.I.S. or M.S.L.S. degree
- the School of Law, which combines the juris doctor (J.D.) degree with either the M.S.L.S. or the M.S.I.S. degree

A cooperative archival program allows students to combine the master of arts (M.A.) in public history at North Carolina State University with either the M.S.L.S. or the M.S.I.S., with specialization in archival science. Participation in any dual-degree program requires separate admission to both degree programs.

The basic requirement for admission to the master's programs is a bachelor's degree from a recognized college or university. The student's undergraduate work should demonstrate a strong foundation in liberal arts and sciences. Each master's student is required to enter the program with a foundation in the basic technological tools (e.g., HTML, CSS, databases) employed in the field. Applicants must meet the requirements for The Graduate School, which include submission of acceptable scores on the General Test of the Graduate Record Examination (GRE). For details about the entrance requirements and the curriculum for the master's programs, see the program descriptions available on the school's Web site (http://sils.unc.edu/programs).

The master of professional science in biomedical and health informatics is an interdisciplinary program that prepares the next generation of health informatics leaders. The degree consists of 35 credits and requires about 1.5 academic years (17 months) of full-time study or 2(+) years of part-time study to complete. There are two tracks: public health informatics and clinical informatics. Students in each program track complete a practicum consisting of an internship in a health care, public health, health research, or health information technology organization that includes a project synthesizing knowledge gleaned from the entire program curriculum.

The doctor of philosophy (Ph.D.) in health informatics is a 55-credit, interdisciplinary program that emphasizes advanced database
management, analytics methods and evaluation, and human-computer interactions in health informatics.

The post-master’s certificate (PMC) in information and library science is a 30-semester-hour post-master’s degree program that is designed for practitioners who seek an articulated and systematic continuing education program to enhance their professional career development in information and library science. The school currently offers a specialized PMC in data curation. Students may also design a specialization to meet their individual needs.

The professional science master’s in digital curation is a 31-credit-hour, online degree that focuses on digital curation. A comprehensive, project-oriented curriculum allows students to develop the core skills, knowledge, and competencies for ensuring the longevity, authenticity, discoverability, and usability of digital assets.

The doctor of philosophy in information and library science (Ph.D.) is a research degree. Thus, the purpose of the doctoral program in SILS is to educate scholars who are capable of addressing problems of scholarly consequence in the field of information and library science. Each student will develop a program of studies that is tailored to individual interests and career goals. Required classes include a yearlong seminar on research issues and questions (INLS 881/INLS 882) and completion of an appropriate sequence of courses in statistics. Additional courses in research methods and theory development are recommended, as are research experience and substantive content courses that are related to a student’s research interests. There are also opportunities for students to develop teaching skills through both coursework and teaching experience.

The school is located in Manning Hall, which houses: classrooms as well as the administrative and faculty offices; Widernet (http://widernet.unc.edu), a program that aims to improve digital communications to all communities and individuals around the world in need of educational resources, knowledge and training; ibiblio.org (http://ibiblio.org), one of the most popular Web sites on the Internet; and the Information and Technology Resource Center (ITRC). The ITRC includes the Information and Library Science Library, which holds more than 100,000 volumes, and computer labs. Those interested in any of the SILS degree programs should consult the SILS Web site (http://sils.unc.edu) or request information from the School of Information and Library Science, CB #3360, 100 Manning Hall, The University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27599-3360. Email: info@ils.unc.edu.

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Leslie Street
Arlene Taylor
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Rebecca Vargha
Meredith Weiss, Virginia Commonwealth University
Steven Weiss
Hollie White
Kam Woods

NOTE: The prefix, or subject code, for all School of Information and Library Science courses is INLS. When a prerequisite is listed for a course, it may be assumed that an equivalent course taken elsewhere or permission of the instructor also fulfills the prerequisite or corequisite. The course instructor must approve the equivalency of the substitute course. Although graduate students may take courses numbered below 400, they will not receive credit toward a graduate degree for those courses.

INLS

Advanced Undergraduate and Graduate-level Courses

INLS 418. Human Factors in System Design. 3 Credits.
Design, implementation, and evaluation of interfaces for computer systems. User-based techniques, usability issues, and human factors.
Requisites: Prerequisite, INLS 382.
Grading status: Letter grade.

INLS 465. Understanding Information Technology for Managing Digital Collections. 3 Credits.
Prepares students to be conversant with information technologies that underlie digital collections in order to evaluate the work of developers, delegate tasks, write requests for proposals, and establish policies and procedures. Teaches students how to think about information technology systems and recognize and manage interdependencies between parts of the systems.
Grading status: Letter grade.

INLS 490. Selected Topics. 1-3 Credits.
Exploration of an introductory-level special topic not otherwise covered in the curriculum. Previous offerings of these courses do not predict their future availability; new courses may replace these.
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics; 9 total credits; 3 total completions.
Grading status: Letter grade.

INLS 500. Human Information Interactions. 3 Credits.
The behavioral and cognitive activities of those who interact with information, with emphasis on the role of information mediators. How information needs are recognized and resolved; use and dissemination of information.
Grading status: Letter grade.

INLS 501. Information Resources and Services. 3 Credits.
Analysis, use, and evaluation of information and reference systems, services, and tools for both printed and electronic delivery. Provides a foundation in electronic information search techniques, question negotiation, interviewing, and instruction.

INLS 502. User Education. 3 Credits.
Examines the history and context of LIS training programs. Pedagogy, teaching skills, methods of evaluation are addressed. Students may tailor learning projects to their own interests.
Requisites: Prerequisite, INLS 501; permission of the instructor for students lacking the prerequisite.
Grading status: Letter grade.

INLS 503. Communication Skills for Information Professionals. 3 Credits.
Through individual presentations, group exercises, and performance-centered feedback, this course seeks to improve students' ability to communicate their ideas clearly and present themselves positively in a professional setting.
Grading status: Letter grade.

INLS 509. Information Retrieval. 3 Credits.
Study of information retrieval and question answering techniques, including document classification, retrieval and evaluation techniques, handling of large data collections, and the use of feedback.
Grading status: Letter grade
Same as: COMP 487.

INLS 512. Applications of Natural Language Processing. 3 Credits.
Study of applications of natural language processing techniques and the representations and processes needed to support them. Topics include interfaces, text retrieval, machine translation, speech processing, and text generation.
Requisites: Prerequisite, COMP 110, 116, or 121.

INLS 513. Resource Selection and Evaluation. 3 Credits.
Identification, provision, and evaluation of resources to meet primary needs of clientele in different institutional environments.
Grading status: Letter grade.

INLS 515. Consumer Health Information. 3 Credits.
Examines concepts of health, health conditions, policy, and information collections and services from social and cultural perspectives. Analysis and design for provision and access to consumer health information services.
Grading status: Letter grade.

INLS 520. Organization of Information. 3 Credits.
Introduction to the problems and methods of organizing information, including information structures, knowledge schemata, data structures, terminological control, index language functions, and implications for searching.
Grading status: Letter grade.

INLS 523. Introduction to Database Concepts and Applications. 3 Credits.
Design and implementation of basic database systems. Semantic modeling, relational database theory, including normalization, indexing, and query construction, SQL.
Requisites: Pre- or corequisite, INLS 161.
Grading status: Letter grade.
INLS 525. Electronic Records Management. 3 Credits.  
Explores relationships between new information and communication technologies and organizational efforts to define, identify, control, manage, and preserve records. Considers the importance of organizational, institutional and technological factors in determining appropriate recordkeeping strategies.

Grading status: Letter grade.

INLS 530. Young Adult Literature and Related Materials. 3 Credits.  
A survey of print and nonprint library materials particularly suited to the needs of adolescents.

Grading status: Letter grade.

INLS 534. Youth and Technology in Libraries. 3 Credits.  
This course encourages students to explore the array of technologies available to children and adolescents, the issues surrounding the use of technology, the role of care givers, and potential impacts on development.

Grading status: Letter grade.

INLS 539. Going the Last Mile: Information Access for Underserved Populations. 3 Credits.  
In this course we investigate the special challenges of providing information services to marginalized populations in an increasingly digital world.

Grading status: Letter grade.

INLS 540. Building a Personal Digital Library. 3 Credits.  
Students will implement a personal digital LifeTime Library. Topics include creation of a personal digital library, organization of the material, creation of descriptive metadata, management, and sharing of the collection.

Grading status: Letter grade.

INLS 541. Information Visualization. 3 Credits.  
An introduction to information visualization through reading current literature and studying exemplars. The course reviews information visualization techniques, provides a framework for identifying the need for information visualization, and emphasizes interactive electronic visualizations that use freely available tools. Students will construct several visualizations. No programming skills are required.

Grading status: Letter grade.

INLS 545. History of the Book and Other Information Formats. 3 Credits.  
The history of the origin and development of the book in all its formats: clay tablets to electronic. Coverage includes scientific and other scholarly publications, religious works, popular literature, periodicals, and newspapers.

Grading status: Letter grade.

INLS 550. History of Libraries and Other Information-Related Cultural Institutions. 3 Credits.  
The history of cultural institutions related to information from earliest times to the present day. Includes specific institutions, trends in service and facilities, and individuals important in the development of these institutions.

Grading status: Letter grade.

INLS 554. Cultural Institutions. 3 Credits.  
This course will explore cultural institutions--libraries, museums, parks, zoological and botanical gardens, reconstructions and other settings--as lifelong educational environments.

Grading status: Letter grade.

INLS 556. Introduction to Archives and Records Management. 3 Credits.  
Survey of the principles, techniques, and issues in the acquisition, management, and administration of records, manuscripts, archives, and other cultural and documentary resources in paper, electronic, and other media formats.

Grading status: Letter grade.

INLS 558. Principles and Techniques of Storytelling. 3 Credits.  
An overview of storytelling, its historical development, and the presentation and administration of storytelling programs. The class focuses on performance skills merged with theoretical issues.

Grading status: Letter grade.

INLS 560. Programming for Information Science. 3 Credits.  
Introduction to programming and computational concepts. Students will learn to write programs using constructs such as iteration, flow control, variables, functions, and error handling. No programming experience required.

Grading status: Letter grade.

INLS 561. Digital Forensics for Curation of Digital Collections. 3 Credits.  
Students will learn about hardware, software, principles, and methods for capturing and curating digital data that have been stored on removable media (i.e., hard drives, floppy disks, USB memory sticks).

Grading status: Letter grade.

INLS 566. Information Assurance. 3 Credits.  
Aspects of data integrity, privacy, and security from several perspectives: legal issues, technical tools and methods, social and ethical concerns, and standards.

Requirements: Prerequisite, INLS 161 or 461.

Grading status: Letter grade.

INLS 572. Web Development I. 1.5 Credit.  
Introduction to Internet history, architecture, and applications. Introduces design principles for creating usable and accessible Web sites. Develops technical skills and understanding of standards.

Requirements: Prerequisite, INLS 161.

Grading status: Letter grade.

INLS 573. Mobile Web Development. 1.5 Credit.  
An introduction to techniques and technologies for the development of mobile Web sites and their applications.

Requirements: Prerequisite, INLS 161.

Grading status: Letter grade.

INLS 576. Distributed Systems and Administration. 3 Credits.  
Distributed and client/server-based computing. Includes operating system basics, security concerns, and issues and trends in network administration.

Requirements: Prerequisite, INLS 161 or 461.

Grading status: Letter grade.

INLS 578. Protocols and Network Management. 3 Credits.  
Network protocols and protocol stacks. Included are discussions of protocol classes, packet filtering, address filtering, network management, and hardware such as protocol analyzers, repeaters, routers, and bridges.

Requirements: Prerequisite, INLS 161 or 461.

Grading status: Letter grade.

INLS 581. Research Methods Overview. 3 Credits.  
An introduction to research methods used in information and library science, exploring the design, interpretation, analysis, and application of published research.

Grading status: Letter grade.
INLS 582. Systems Analysis. 3 Credits.
Introduction to the systems approach to the design and development of information systems. Methods and tools for the analysis and modeling of system functionality (e.g., structured analysis) and data represented in the system (e.g., object-oriented analysis) are studied. Undergraduates are encouraged to take INLS 382 instead of this course. Students may not receive credit for both INLS 582 and INLS 382.
Grading status: Letter grade.

INLS 584. Information Ethics. 3 Credits.
An overview of ethical reasoning, followed by discussion of issues most salient to information professionals, e.g., intellectual property, privacy, access/censorship, effects of computerization, and ethical codes of conduct.
Grading status: Letter grade.

INLS 585. Management for Information Professionals. 3 Credits.
Introduction to management principles and practices for information professionals working in all types of organizations. Topics include planning, budgeting, organizational theory, staffing, leadership, organizational change and evaluation, and decision making.
Grading status: Letter grade.

INLS 586. Project Management. 1.5 Credit.
Strategies and skills needed to effectively manage projects, integrating project management theory with best practices in different organizational perspectives. Individual and team assignments include readings and case studies.
Grading status: Letter grade.

INLS 609. Experimental Information Retrieval. 3 Credits.
This course takes an in-depth look at experimental information retrieval systems that focus on different search tasks and are evaluated in community-wide evaluation forums such as TREC and INEX.
Requisites: Prerequisite, INLS 509.
Grading status: Letter grade.

INLS 613. Text Mining. 3 Credits.
This course will allow the student to develop a general understanding of knowledge discovery and gain a specific understanding of text mining. Students will become familiar with both the theoretical and practical aspects of text mining and develop a proficiency with data modeling text.
Grading status: Letter grade.

INLS 620. Web Information Organization. 3 Credits.
Similar programming background needed. Understand the Web as a platform for information organizing systems. Learn how the Web has been designed to be a service platform, data publishing platform, and application platform.
Requisites: Prerequisites, INLS 520 or 560.
Grading status: Letter grade.

INLS 621. Personal Information Management. 3 Credits.
This course focuses on issues in personal information management research and practice, including information organization, human cognition and memory, task continuity across devices, preservation, and the role of technology in personal information management.
Grading status: Letter grade.

INLS 623. Database Systems II: Intermediate Databases. 3 Credits.
Intermediate-level design and implementation of database systems, building on topics studied in INLS 523. Additional topics include MySQL, indexing, XML, and nontext databases.
Requisites: Prerequisites, INLS 382 or 582, and 523.
Grading status: Letter grade.

INLS 624. Policy-Based Data Management. 3 Credits.
Students will develop policies for managing digital repositories and persistent archives. The rules will be implemented in the integrated Rule-Oriented Data System (iRODS), which organizes and distributes data into shareable collections.
Requisites: Prerequisite, INLS 461 or COMP 110 or 116.
Grading status: Letter grade.

INLS 625. Information Analytics. 3 Credits.
This course introduces analytical techniques to deal with very large data sets. Students will become familiar with predictive modeling, clustering, data mining, and paradigms such as map resource.
Requisites: Prerequisite, INLS 560; permission of the instructor for students lacking the prerequisite.
Grading status: Letter grade.

INLS 626. Introduction to Big Data and NoSQL. 1.5 Credit.
Information is being generated at an exponential scale in many areas, from astronomy to social networking and e-marketing. Processes for handling these data are data intensive, require heavy read/write workloads, and do not need the stringent ACID properties of relational databases. Several specific systems will be studied as examples.
Requisites: Prerequisite, INLS 523.

INLS 641. Visual Analytics. 3 Credits.
This project-based course provides an overview of visual analytics. Material includes foundational concepts and theories, seminal and recent research in the field, and hands-on experience with commonly used technologies. Programming experience strongly recommended.
Grading status: Letter grade.

INLS 651. Audio-Visual Archives Management. 1.5 Credit.
An introduction to the management of audio, film, and video archives with an emphasis on the history of recording, best practices for preservation and access, and copyright. Through selected readings, lecture, class discussion, assignment, and hands-on demonstration, students will gain an understanding of the history of recording, format identification, storage and handling, philosophy of media preservation, and copyright.
Grading status: Letter grade.

INLS 660. Social Media and Society: A Theoretical and Empirical Overview. 3 Credits.
Explores the evolution, implications, and complications of social media in multiple spheres of life including sociality, community, politics, power and inequality, education, and information from theoretical and empirical perspectives.
Grading status: Letter grade.

INLS 672. Web Development II. 3 Credits.
Study of design and implementation of applications using both client and server side configuration and programming. Example topics include PHP, ruby on Rails, and Javascript.
Requisites: Prerequisite, INLS 572.
Grading status: Letter grade.

INLS 690. Intermediate Selected Topics. 1-3 Credits.
Exploration of a special topic not otherwise covered in the curriculum, at an intermediate level. Previous offering of this course does not predict future availability; new courses may replace these. Topic varies by instructor.
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics; 9 total credits. 3 total completions.
Grading status: Letter grade.
INLS 691H. Research Methods in Information Science. 3 Credits.
Senior standing and permission of the instructor. Restricted to information science majors. An introduction to research methods used in information science. Includes the writing of a research proposal.
Gen Ed: CI, EE-Mentored Research.
Grading status: Letter grade.

INLS 692H. Honors Thesis in Information Science. 3 Credits.
Senior standing and permission of the instructor. Restricted to information science majors. Students in the SILS undergraduate honors program engage in independent research and write an honors thesis reporting the research under the supervision of a faculty member.
Gen Ed: EE-Mentored Research.
Grading status: Letter grade.

INLS 696. Study in Information and Library Science. 1-3 Credits.
Study by an individual student on a special topic under the direction of a specific faculty member. Six credit maximum for master's students.
Graduate faculty.
Requisites: Prerequisite, permission of the instructor.
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics; 6 total credits. 2 total completions.
Grading status: Letter grade.

INLS 697. Information Science Capstone. 3 Credits.
Senior standing required. Information science major or minor. Contemporary topics of information science, information systems, information technology, information design, and information management. Assessment of future impact of new developments.
Grading status: Letter grade.

Graduate-level Courses

INLS 700. Scholarly Communication. 1.5 Credit.
Addresses how scholars approach academic work; social relationships within academia; external stakeholders in the scholarly communication system; and emerging technologies' impact upon work practices. Intended for students interested in academic libraries or digital collections of scholarly materials, and/or conducting research on scholarly communication.
Requisites: Prerequisite, INLS 500 or permission of instructor.

INLS 701. Information Retrieval Search Strategies. 3 Credits.
Investigates information retrieval techniques and strategies from the world of electronic information sources, including commercial and Internet databases and search engines. Data analysis, marketing, and end-user products and services are explored.
Requisites: Prerequisite, INLS 501 or INLS 509.

INLS 702. Social Science Information. 1.5 Credit.
Survey of information and its needs in the social sciences, with an emphasis on information use and search strategies and on information resources.
Requisites: Prerequisite, INLS 501.

INLS 703. Science Information. 3 Credits.
Survey of the communication of scientific information and the information sources in the physical and biological sciences; emphasis on major bibliographic and fact sources, including online reference services.
Requisites: Prerequisite, INLS 501.

INLS 704. Humanities Information. 1.5 Credit.
Survey of information and its needs in the humanities, with an emphasis on information use and search strategies and on reference and other information resources.
Requisites: Prerequisite, INLS 501.

INLS 705. Health Sciences Information. 3 Credits.
A survey of information used in the health sciences disciplines and professions. The organization of sources, current techniques, and tools for its control, including online databases.
Requisites: Prerequisite, INLS 501.

INLS 706. Biomedical Informatics Research Review. 1.5 Credit.
Develops understanding of information/library science research issues related to biomedical and health informatics through the review of journal articles, invited talks, and critical group discussions.
Repeat rules: May be repeated for credit.

INLS 707. Government Information. 3 Credits.
A survey of information and data sources from all levels of U.S. government, and international bodies. Primary focus on strategies for finding information; secondary, collection management, role of librarians, etc.

INLS 708. Law Libraries and Legal Information. 3 Credits.
An introduction to the legal system and the development of law libraries, their unique objectives, characteristics, and functions. The literature of Anglo-American jurisprudence and computerized legal research are emphasized, as well as research techniques.
Requisites: Prerequisite, INLS 501.

INLS 709. Business Information. 3 Credits.
Combines an introduction to basic business concepts and vocabulary with consideration of current issues in business librarianship and of key print and electronic information sources.
Requisites: Prerequisite, INLS 501.

INLS 710. Evidence-Based Medicine. 3 Credits.
An introduction to the process of evidence-based medicine (EBM) including question building, searching, and critical appraisal of studies and to the supporting roles and opportunities for medical librarians.

INLS 718. User Interface Design. 3 Credits.
Basic principles for designing the human interface to information systems, emphasizing computer-assisted systems. Major topics: users' conceptual models of systems, human information processing capabilities, styles of interfaces, evaluation methods.
Requisites: Prerequisite, INLS 582.

INLS 719. Usability Testing and Evaluation. 3 Credits.
This course will introduce central concepts in usability engineering, testing and evaluation including: UX lifecycle, contextual inquiry, formal and informal evaluation techniques, measures, metrics, qualitative and quantitative analysis, evaluation reporting.
Requisites: Prerequisites, INLS 382 or INLS 582.

INLS 720. Metadata Architectures and Applications. 3 Credits.
Examines metadata in digital environment. Emphasizes the development and implementation of metadata schemas in distinct information communities and the standards and technological applications used to create machine understandable metadata.
Requisites: Prerequisite, INLS 509 or 520.

INLS 721. Cataloging Theory and Practice. 3 Credits.
Pre or Covers principles, practices, and future trends for cataloging library resources. Topics include RDA/AACR2, MARC, authority control, subject analysis, classification, and cataloging of print, nonprint, and digital resources.
Requisites: co-requisite, INLS 520.
INLS 723. Database Systems III: Advanced Databases. 3 Credits.
Advanced study of database systems. Topics include database design, administration, current issues in development and use, optimization, indexing, transactions, and database programming.
Requisites: Prerequisite, INLS 623.

INLS 725. Electronic Health Records. 3 Credits.
Focuses on EHR data standards with emphasis on data management requirements, applications, and services. Course includes HL7, CCHIT, and CDISC standards. For data management specialists, administrators, and health data analysts.

INLS 728. Seminar in Knowledge Organization. 3 Credits.
Explores theoretical foundations, historical approaches, and current practices for organizing knowledge. Covers general terminological and classificatory systems, domain semantic systems, and research.
Requisites: Prerequisite, INLS 509 or 520; permission of the instructor for students lacking the prerequisite.

INLS 732. Children's Literature and Related Materials. 3 Credits.
Survey of literature and related materials for children with emphasis on 20th-century authors and illustrators.

INLS 733. Administration of Public Library Work with Children and Young Adults. 3 Credits.
Objectives and organization of public library services for children and young adults; designed for those who may work directly with young people or who intend to work in public libraries.

INLS 735. Youth Services in a Diverse Society. 3 Credits.
The purpose of this course is to prepare students to work as youth services librarians in today's increasingly diverse society. The course includes a 30-hour service learning component.

INLS 739. Information Services and Specific Populations. 3 Credits.
Service, professional, and administrative issues related to information access by nontraditional information service users. The course examines trends, public policy, ethical issues, programming, and evaluation of services.

INLS 740. Digital Libraries: Principles and Applications. 3 Credits.
Research and development issues in digital libraries including: collection development and digitization, mixed mode holdings; access strategies and interfaces, metadata and interoperability, economic and social policies, and management and evaluation.

INLS 745. Instruction for Youth in School and Public Libraries. 3 Credits.
Considers the educational process, methods of teaching, information literacy standards, and curricular content in grades K-12. Examines the role of school and public librarians in providing instruction for youth. Offered annually.

INLS 746. Music Librarianship. 3 Credits.
Survey of the history and practice of music librarianship, with an emphasis on administration, collection development, and public service in academic and large public libraries.

INLS 747. Special Libraries and Knowledge Management. 3 Credits.
Professional competencies required to work as a special librarian or knowledge manager in a corporate or nonprofit setting. Strategic planning, Organizational dynamics. Tailoring services. Intranet design. Value-added measures. Intellectual capital.
Requisites: Prerequisite, INLS 585.

INLS 748. Health Sciences Environment. 3 Credits.
Trends in health care delivery, biomedical research and health sciences education, with emphasis on the impact and use of information. Includes observation of clinical and research settings.
Requisites: Prerequisite, INLS 501 or 585; permission of the instructor for students lacking the prerequisite.

INLS 749. Art and Visual Information Management. 3 Credits.
A survey of the history and practice of art and visual resources librarianship/curatorship, with an emphasis on administration, collection development, copyright practices, digital resource management, and public service.
Requisites: Prerequisite, INLS 520.

INLS 752. Digital Preservation and Access. 3 Credits.
Focuses on best practices for the creation, provision, and long-term preservation of digital entities. Topics include digitization technologies; standards and quality control; digital asset management; grant writing; and metadata.

INLS 753. Preservation of Library and Archive Materials. 3 Credits.
An introduction to current practices, issues, and trends in the preservation of materials for libraries and archives, with an emphasis on integrating preservation throughout an institution's operations.

INLS 754. Access, Outreach, and Public Service in Cultural Heritage Repositories. 3 Credits.
Explores user needs, information seeking behaviors, and provision of access to primary source materials in archives, manuscript repositories, and museums. User education and outreach are major foci.
Requisites: Prerequisite, INLS 501.

INLS 755. Archival Appraisal. 3 Credits.
Explores history, theories, techniques, and methods that archivists use to identify documents and other materials of enduring value for long-term preservation.
Requisites: Prerequisite, INLS 556.

INLS 756. Data Curation and Management. 3 Credits.
Explores data curation lifecycle activities from design of good data, through content creator management, metadata creation, ingest into a repository, repository management, access policies and implementation, and data reuse.

INLS 757. Principles and Practices in Archival Description. 3 Credits.
Recommended preparation, INLS 520. Explores the history, principles, development, and use of archival description with a focus on EAD and MARC structures. Presents authority and subject analysis work and description for special formats.
Requisites: Prerequisite, INLS 556.

INLS 758. International and Cross-Cultural Perspectives for Information Management. 3 Credits.
Examines information in society for selected nations/cultures. Compares institutions, processes, and trends in the globalization of information management in the face of barriers of language and culture.

INLS 760. Web Databases. 3 Credits.
Programming experience required. Explores concepts and practice surrounding the implementation and delivery of Web-enabled databases. Students will gain experience with and evaluate PC and Unix Web database platforms.
Requisites: Prerequisites, INLS 572 and 623.
INLS 762. Internet Issues and Future Initiatives. 3 Credits.
Members of this seminar discuss emerging Internet policy issues such as copyright, intellectual property, privacy, and security. Participants will also explore emerging Internet tools and applications.
Requisites: Prerequisite, INLS 572.

INLS 770. Health Informatics Seminar. 1 Credit.
This series explores key areas in Health Informatics and includes research results, overview of programs of research, and evaluative projects. Speakers with extensive informatics experiences and knowledge from both academia and industry are invited to present.
Repeat rules: May be repeated for credit. 6 total credits. 6 total completions.

INLS 781. Proposal Development. 1.5 Credit.
Development of a proposal for the master's paper/project/portfolio.
Requisites: Prerequisite, INLS 581.

INLS 782. Library Assessment. 3 Credits.
Addresses evaluation and assessment activities in libraries. Existing tools for evaluation library operations will be considered. Students will design and conduct their own evaluation of one or more library operations.
Requisites: Prerequisite, INLS 581.

INLS 785. Human Resources Management. 3 Credits.
An in-depth look at the management of human resources in libraries and other information agencies. Includes topics such as recruitment, hiring, job analysis, performance appraisal, training, and compensation.
Requisites: Prerequisite, INLS 585.

INLS 786. Marketing of Information Services. 3 Credits.
Application of marketing theory to libraries and other information settings. Includes consumer behavior, market research, segmentation, targeting and positioning, public relations, product design, and sales promotion.

INLS 787. Legal Issues for Librarians. 3 Credits.
Students will learn to read/analyze legal materials, identify major legal issues and legal regulations governing librarians, and use legal information to create policies and guide best practice in particular institutions.

INLS 795. Supervised Field Experience. 3 Credits.
Required preparation, completion of 18 semester hours. Permission of the instructor. Supervised observation and practice in an information service agency or library. The student will work a required amount of time under the supervision of an information/library professional and participate in faculty-led discussions for ongoing evaluation of the practical experience.
Repeat rules: May be repeated for credit. 6 total credits. 2 total completions.

INLS 796. Field Experience in School Library Media. 3 Credits.
Required preparation, completion of at least 21 semester hours, including INLS 744 and INLS 754. Permission of the instructor. Supervised observation and practice in a school library media center. Faculty-led seminars, reflection journals, and on-site faculty observations enhance the experience.
Repeat rules: May be repeated for credit. 6 total credits. 2 total completions.

INLS 818. Seminar in Human-Computer Interaction. 3 Credits.
Research and development in design and evaluation of user interfaces that support information seeking. Major topics: interactivity, needs assessment, query and browser interactions, interactive design and maintenance, usability testing.
Requisites: Prerequisite, INLS 718; permission of the instructor for students lacking the prerequisite.

INLS 841. Seminar in Academic Libraries. 3 Credits.
Study of problems in the organization and administration of college and university libraries with emphasis on current issues in personnel, finance, governance, and services.
Requisites: Prerequisite, INLS 585.

INLS 842. Seminar in Popular Materials in Libraries. 3 Credits.
Selected topics relating to the roles of various types of libraries in the provision and preservation of popular materials (light romances, science fiction, comic books, etc.) existing in various forms (print, recorded sound, etc.).

INLS 843. Seminar in Public Libraries. 3 Credits.
Required preparation, completion of 12 semester hours. Selected topics in public library services, systems, networks, and their management. Current issues are emphasized, along with the interests of the participants.

INLS 857. Seminar in Rare Book Collections. 3 Credits.
A study of the nature and importance of rare book collections; problems of acquisition, organization, and service.

INLS 873. Research Practicum. 1-3 Credits.
Doctoral students will work on faculty-sponsored or off-site research projects to gain foundational research skills. Students may be involved in research design, data collection, data analysis, or other research-related activities
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics; 12 total credits. 6 total completions.

INLS 881. Research Issues and Questions I. 3 Credits.
Doctoral standing or permission of the instructor. Intensive and systematic investigation of the fundamental ideas in information and library science. Exploration and discussion in seminar format. Must be taken in fall semester followed by INLS 882 in spring.

INLS 882. Research Issues and Questions II. 3 Credits.
Doctoral standing or permission of the instructor. Intensive and systematic investigation of the fundamental ideas in information and library science. Exploration and discussion in seminar format. Must be taken in the spring semester immediately after INLS 881 (offered fall only).

INLS 883. Research Colloquium. 1 Credit.
Doctoral standing required. Presentation and discussion of research issues, questions, methods, analytical approaches by students, faculty, or visitors.

INLS 884. Seminar in Research Methodology. 3 Credits.
Required preparation, doctoral standing or INLS 780 for Master's students. Permission of the instructor for students lacking this preparation. Exploration of topics related to research design and methodology in information and library science.
INLS 886. Graduate Teaching Practicum. 1-3 Credits.
Permission of the instructor. Doctoral students will observe and work with faculty in the classroom to gain foundational teaching skills. Students may practice designing a class session or exercise, leading a class, and/or grading.
Repeat rules: May be repeated for credit. 3 total credits. 2 total completions.

INLS 887. Seminar in Theory Development. 3 Credits.
Doctoral or advanced master's standing required. Discussion and critique of the structural components and processes utilized in theory development. Seminar provides knowledge relating to the various stages of theory building.

INLS 888. Seminar in Teaching and Academic Life. 3 Credits.
Doctoral student or advanced master's standing required. Examines teaching, research, publication, and service responsibilities. Provides perspective on professional graduate education and LIS educational programs. Explores changing curricula and discusses ethics, rewards, and problems of academic life.

INLS 889. Seminar in Teaching Practice. 1 Credit.
Pre- or Doctoral standing required. For doctoral students currently involved in teaching activities, these regular seminar meetings are designed to discuss relevant literature and aspects of the teaching experience.
Requisites: co-requisite, INLS 888.

INLS 890. Advanced Special Topics. 1-6 Credits.
Exploration of an advanced special topic not otherwise covered in the curriculum. Previous offering of these courses does not predict their future availability; new courses may replace these.
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics; 9 total credits. 3 total completions.

INLS 988. Research in Information and Library Science. 1-6 Credits.
Permission of the instructor. Supports individual and small group research undertaken by doctoral students in information and library science intended to produce research results of publishable quality.
Repeat rules: May be repeated for credit; may be repeated in the same term for different topics.

INLS 992. Master's (Non-Thesis). 3 Credits.
Provides a culminating experience for master's degree students, who engage in independent research or project effort and develop a major paper reporting the research or project under the supervision of a faculty member.
Repeat rules: May be repeated for credit.

INLS 994. Doctoral Research and Dissertation. 3 Credits.