LIBRARY AND INFORMATION STUDIES (L I S)

L I S/COMP SCI 102 – INTRODUCTION TO COMPUTING
3 credits.

Provides a broad overview of computing at an introductory level, including topics such as security, robotics, and artificial intelligence. Increases understanding of how computers work and how algorithms solve problems. Design and implement creative applications in an introductory coding environment. Provides a broad overview of computing and algorithms without an emphasis on programming.
Requisites: MATH 96 or placement into MATH 141. MATH 118 does not fulfill the prerequisite. Not open to students with credit for COMP SCI 300 or 320
Course Designation: Gen Ed - Quantitative Reasoning Part A
Breadth - Natural Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Develop a fundamental understanding of the key concepts of computer science in a variety of contexts.
Audience: Undergraduate

2. Create art, music, stories, games and other programs in a visual, introductory programming language
Audience: Undergraduate

3. Understand how computers use algorithms to solve problems and act in intelligent ways.
Audience: Undergraduate

4. Understand how computers utilize large sets of data to provide insight and knowledge.
Audience: Undergraduate

5. Learn how software and hardware make modern computers work
Audience: Undergraduate

L I S 201 – THE INFORMATION SOCIETY
4 credits.

Examines important social, legal, and historical contexts of information and information technologies, and explores significant social, legal, and moral questions that surround those technologies.
Requisites: Satisfied Communications A requirement
Course Designation: Gen Ed - Communication Part B
Breadth - Either Humanities or Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 202 – INFORMATIONAL DIVIDES AND DIFFERENCES IN A MULTICULTURAL SOCIETY
3 credits.

Explores the impact of and barriers to access to information on the lives of low-income ethnic/racial minority communities in the United States. Provides introduction to contemporary information society from a sociological perspective.
Requisites: None
Course Designation: Ethnic St - Counts toward Ethnic Studies requirement
Breadth - Either Humanities or Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 220 – DIGITAL FOOTPRINTS: PRIVACY AND TECHNOLOGY
3 credits.

Each of us leaves behind digital information traces, our "digital footprint", as we go about our daily lives. Learn about the different kinds of technologies involved in capturing this information, who owns it and controls it, and how it is used to make our lives easier and less private at the same time. Consider what information can be tracked and inferred about us based on our digital traces, what is gained (and lost) as individuals and society by allowing our digital footprints to continue to expand, and debate what future technologies and policies concerning this information should be like.
Requisites: Satisfied Communications A requirement or concurrent enrollment
Course Designation: Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Define "privacy" and describe what it means for them in their own lives
Audience: Undergraduate

2. Understand the basics of technologies involved in collecting and inferring digital information about people.
Audience: Undergraduate

3. Read and understand privacy policies, and consider how the use of different platforms and systems might impact their own privacy and the privacy of others.
Audience: Undergraduate

4. Think critically about how the future design of technologies and policies might impact privacy.
Audience: Undergraduate

L I S 301 – INFORMATION LITERACIES IN ONLINE SPACES
3 credits.

Explores information and digital literacies needed by today's online consumers and producers. Covers skills and topics related to access (digital divides, power relations in online communities, regulation), analysis (assessing credibility, evaluating risks, analyzing representation) and production (blogging, videosharing, gaming).
Requisites: None
Course Designation: Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2022

L I S 340 – TOPICS IN INFORMATION STUDIES - SOCIAL ASPECTS
3 credits.

Exploration of contemporary issues related to information in society. Subject will vary. Examples include, but not restricted to: Information Ethics, Digital and Print Culture, Global Information Flows.
Requisites: Sophomore standing
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2026

L I S 341 – TOPICS IN INFORMATION STUDIES - TECHNOLOGICAL ASPECTS
1-3 credits.

Exploration of information technology and information management subjects. Subjects will vary. Examples include, but not restricted to: A Social History of Information Infrastructure, Digital Productivity Tools and Debates, Digital Publishing Standards and Tools, Digital Preservation.
Requisites: Sophomore standing
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

L I S 350 – HISTORY AND FUTURE OF BOOKS
3 credits.

Framed by a question about what books are, what books have been, and what books might be: past, present, and future. It assumes that "book" is a placeholder term for an object that becomes the site of questions and debates about a variety of media, expressions, and recording practices. A goal of the class is to understand the book as an active technology that shapes peoples, perceptions, and cultures rather than serving as a passive receptacle of them. This course will approach the book from a number of perspectives including book history, digital humanities, media studies, and human computer interaction, as well as examining industry-oriented interests such as e-reader manufacturing, book retail, and publishing.
Requisites: Satisfied Communications A requirement
Course Designation: Gen Ed - Communication Part B
Breadth - Humanities
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 351 – INTRODUCTION TO DIGITAL INFORMATION
3 credits.

Prepares students to use information technologies to solve problems and help people through implementing information infrastructures such as websites, databases and metadata. Students will explore information access, information representation, usability and information policy issues, and increase their understanding of the social impacts and social shaping of information infrastructures.
Requisites: Satisfied Communications A requirement
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 399 – INDEPENDENT READING AND RESEARCH
1-3 credits.

Concentrated work on a subject or problem of interest.
Requisites: Consent of instructor
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2026
Learning Outcomes: 1. Investigate an information science topic in conjunction with other investigator(s) to develop a deep understanding of a research problem.
Audience: Undergraduate

2. Identify a research problem and develop a basic knowledge of the academic literature on this topic.
Audience: Undergraduate

L I S/COMP SCI/STAT 401 – UNDERGRADUATE COOPERATIVE EDUCATION
1 credit.

Full time work experience which combines classroom theory with practical knowledge related to Computer Sciences, Data Science, Statistics, or Information Science.
Requisites: Consent of instructor
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Workplace - Workplace Experience Course
Repeatable for Credit: Yes, for 3 number of completions
Last Taught: Spring 2026
Learning Outcomes: 1. Apply academic experience gained through coursework in a professional setting.
Audience: Undergraduate

2. Experience the nature and demands of a professional career in computer science, information science, and/or statistics/data science
Audience: Undergraduate

3. Develop professional and transferable skills like time management, collaboration, problem-solving, and communication in the workplace.
Audience: Undergraduate

L I S 407 – DATA STORYTELLING WITH VISUALIZATION
3 credits.

Introduction to data visualization including how and why visualization can be an effective tool for summarizing, analyzing and communicating about data, the limitations and challenges in using data visualizations, including misrepresentation and bias and planning appropriate types of visualization(s) based on source data, audience, and goals. Instruction will include hands-on experience with popular visualization software platforms to develop visualizations and presentations.
Requisites: Sophomore standing and satisfied Quantitative Reasoning (QR) A requirement
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Understand theories of data visualization
Audience: Undergraduate

2. Explain how and why visualization can be an effective tool for summarizing, analyzing and communicating about data
Audience: Undergraduate

3. Understand and apply best practices for communicating about data for targeted and broad audiences
Audience: Undergraduate

4. Understand and apply theories and best practices for creating visualizations
Audience: Undergraduate

5. Design and develop informative and persuasive visualizations
Audience: Undergraduate

6. Identify and choose appropriate software for creating visualizations
Audience: Undergraduate

7. Choose appropriate visualization types based on source data, audience, and goal
Audience: Undergraduate

8. Critically analyze visualizations created by others for effectiveness and bias
Audience: Undergraduate

9. Understand the limitations and challenges of data visualization
Audience: Undergraduate

L I S 408 – GENERATIVE ARTIFICIAL INTELLIGENCE: STRATEGIC APPLICATION, EVALUATION, AND CRITIQUE
3 credits.

Introductory exploration of generative artificial intelligence (AI) from a strategic information studies perspective, such as emphasizing values of privacy, data stewardship, and UX. Topics include societal, legal, policy, and ethical issues related to generative AI, and practicing the ability to evaluate, plan for, and securely work with these digital technologies. Focus on the strategies, skills and self-sufficiency necessary to evaluate, implement, and critique various and evolving AI tools.
Requisites: Junior standing
Course Designation: Breadth - Humanities
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Learning Outcomes: 1. Develop ethical and principled approaches to AI and related technology adoption, use, and education
Audience: Undergraduate

2. Analyze the social forces that create and shape the use of generative AI technologies, the ensuing controversies that can arise, and the complex relationship between these technologies and the future of information agencies
Audience: Undergraduate

3. Evaluate, plan for, select, and safely and securely work with digital technologies
Audience: Undergraduate

4. Develop self-sufficiency in evaluating and using generative AI tools
Audience: Undergraduate

L I S 440 – NAVIGATING THE DATA REVOLUTION: CONCEPTS OF DATA & INFORMATION SCIENCE
3 credits.

Provides an introduction into the world of Data Science. Includes hands-on projects using scenarios involving analysis of real-world data and development of graphical visualizations. Introduces statistical tests, data management, data programming, data ethics and visualization of data.
Requisites: Satisfied Quantitative Reasoning (QR) A requirement, Satisfied Communications A requirement, and sophomore standing
Course Designation: Gen Ed - Quantitative Reasoning Part B
Breadth - Natural Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Understand and communicate the different types of data science projects, and be familiar with the tools and methods used in data science
Audience: Undergraduate

2. Apply data analysis to primary data sources to solve problems
Audience: Undergraduate

3. Communicate about data and analyses clearly and persuasively in written, spoken, and graphical/visualized form
Audience: Undergraduate

4. Identify probability distributions commonly used as foundations for statistical modeling
Audience: Undergraduate

5. Reason around ethical and privacy issues in data science conduct and apply ethical practices.
Audience: Undergraduate

L I S/AFRICAN/COM ARTS 444 – TECHNOLOGY AND DEVELOPMENT IN AFRICA AND BEYOND
3 credits.

Surveys the past 20 years of digital technology and communications culture on the African continent, cross-referenced with discourse on technology experiences in other parts of the developing world, through the framework of development studies. Readings include case studies of micro-tech practices as well as political and social use of new media, and government and NGO-led tech interventions. Information Communication Technology for Development (ICT4D) is a key area of focus. Cross-discipline areas include communications and media studies, African, Latin American and International area studies, as well as the social anthropology of technology and science, and design. Think critically about technology use in the context of different tech cultures from around the world. Apply this perspective towards new media solutions to social problems.
Requisites: Junior standing
Course Designation: Breadth - Either Humanities or Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Identify canonical authors and texts, historical forms, genres, and structures in African culture studies and information and communication studies. Students will demonstrate their understanding of major theories, approaches, concepts and current and classical research findings.
Audience: Both Grad & Undergrad

2. Understand their own learning processes and possess the capacity to intentionally seek, evaluate and learn from information, and recognize and reduce bias in their thinking.
Audience: Both Grad & Undergrad

3. Communicate effectively through essays, oral presentations and discussion and project based work, so they may share their knowledge, wisdom and values with others across social and professional settings.
Audience: Both Grad & Undergrad

4. Write and speak across disciplinary boundaries with regard to existing research about Africa, the African diaspora and international development.

Audience: Graduate

5. Explain the social, economic, and/or environmental dimensions of the sustainability challenge(s) of the historic and contemporary challenges of development-oriented tech projects, and identify areas within ICT which could assist in their sustainability. [Sustainability]
Audience: Both Grad & Undergrad

6. Analyze sustainability issues and/or practices using a systems-based approach of information access and media communications within the sustainability framework with regards to environmental change, public infrastructure for clean water and sanitation, urban growth, education, governance and democracy, and public health. [Sustainability]
Audience: Both Grad & Undergrad

L I S/LEGAL ST 460 – SURVEILLANCE, PRIVACY, AND POLICE POWERS
3 credits.

Examines individual privacy and government information collection in law enforcement, security, public health, administrative law, and other contexts from a variety of disciplinary perspectives.
Requisites: Junior standing
Course Designation: Breadth - Humanities
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2025

L I S 461 – DATA AND ALGORITHMS: ETHICS AND POLICY
3-4 credits.

An introduction to ethical, legal and policy issues related to analytics, "big data" and algorithms to support decision making. Gain familiarity with major debates and controversies in a variety of contexts. Critically analyze course materials and apply moral reasoning and legal concepts to assess case studies and critique arguments made by others.
Requisites: Sophomore standing
Course Designation: Breadth - Humanities
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Identify, analyze, and evaluate moral problems relevant to data science
Audience: Undergraduate

2. Distinguish and explain different types of legal and moral concerns including harm, discrimination, procedural unfairness, respect for persons, and democratic legitimacy.
Audience: Undergraduate

3. Examine and critique the arguments, and to bring original and creative ideas to bear on those arguments in oral and written form.
Audience: Undergraduate

4. Understand and apply theories and concepts to problems in data and ethics in a variety of domains
Audience: Undergraduate

L I S 464 – APPLIED DATABASE DESIGN
3 credits.

Introduces the applications of databases to real-world data and information problems. Overview of the principles and practices of user-oriented database design, management, and application. Discussion and practice cover database application lifecycle, data modeling, relational database design, SQL queries, reports and other interfaces to database data, and database documentation.
Requisites: Sophomore standing and satisfied Quantitative Reasoning (QR) A requirement
Course Designation: Breadth - Natural Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Understand the technical vocabulary and concepts used to describe databases and related technologies
Audience: Undergraduate

2. Understand, and critically evaluate and implement the full spectrum database design process, from the initial user needs analysis, to conceptualization, development of schemas, and final production
Audience: Undergraduate

3. Apply normalization techniques to reduce data redundancy and improve data integrity
Audience: Undergraduate

4. Understand the concepts of de-normalization and its rationale in real-world applications
Audience: Undergraduate

5. Create, modify, and query relational databases using the SQL language
Audience: Undergraduate

6. Perform a real-world database design and implementation in MySQL
Audience: Undergraduate

7. Understand the concept of No-SQL database models and the difference between SQL and NO-SQL database
Audience: Undergraduate

L I S 470 – INTERACTION DESIGN STUDIO
3 credits.

Introduces interaction design, an approach to designing digital information systems that places humans and their needs at the center of the design process. Explores how core principles of design, design processes, cognition, information science and human values inform the design of interactive information systems. Discussion and practice apply the data-driven process of human-centered interaction design to develop new digital products and services.
Requisites: (Sophomore standing, satisfied Quantitative Reasoning (QR) A requirement, and satisfied Communications A requirement), or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Describe the systematic design process of human centered interaction design.
Audience: Undergraduate

2. Apply core concepts to both critique the design of existing digital products and services and to create new design ideas.
Audience: Undergraduate

3. Engage in and respond to constructive critique with peers as part of design work.
Audience: Both Grad & Undergrad

4. Communicate design concepts clearly and persuasively in oral, written and visual communications.
Audience: Both Grad & Undergrad

5. Apply the systematic design process of human centered interaction design.
Audience: Graduate

6. Synthesize core concepts to both critique the design of existing digital products and services and to create new design ideas.
Audience: Graduate

7. Evaluate contemporary design best practices.
Audience: Graduate

L I S/COMP SCI 472 – INTRODUCTION TO WEB DEVELOPMENT
3 credits.

Applied web development introduces methods and tools for creating/maintaining secure and interactive web content. Topics include programming fundamentals to support core web concepts, application development essentials, and content management systems. Web best practices - such as accessibility, design, and critical thinking about relevant ethics and organization - will be incorporated throughout. Gain practical skills to design and implement websites using popular scripting languages and frameworks, content management systems (CMSs), and related tools.
Requisites: Junior standing, declared in Library and Information Studies MA, Information MS, or Capstone Certificate in Computer Sciences for Professionals. Not open to students with credit for COMP SCI 272.
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Develop understanding and application of current web scripting languages and development tools and frameworks.
Audience: Both Grad & Undergrad

2. Install, configure, and customize open source content management systems.
Audience: Both Grad & Undergrad

3. Understand and apply user experience and accessibility best practices in building accessible websites.
Audience: Both Grad & Undergrad

4. Design solutions to problems using multi-step scripting, logical operations, and functions.
Audience: Both Grad & Undergrad

5. Understand ethical issues and concerns related to website development and its related technologies.
Audience: Both Grad & Undergrad

6. Analyze the management challenges, and ethical considerations inherent in web development projects.
Audience: Both Grad & Undergrad

7. Critically evaluate and compare different frameworks and libraries for extending scripting capabilities.
Audience: Graduate

L I S/FOLKLORE 490 – FIELD METHODS AND THE PUBLIC PRESENTATION OF FOLKLORE
3 credits.

Combines a fieldwork practicum with scrutiny of the cultural, political, and ethical dimensions underlying the documentation and public presentation of folklore through festivals, exhibitions, publications, audio-visual productions, and digital archival collections.
Requisites: Sophomore standing
Course Designation: Breadth - Humanities
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025
Learning Outcomes: 1. Understand how to employ folkloristic fieldwork, archival methodologies, and community engagement in documenting and presenting local communities.
Audience: Both Grad & Undergrad

2. Explain key concepts of folklore studies in the context of wider public humanistic research.
Audience: Both Grad & Undergrad

3. Create a final project demonstrating critical thinking, civic knowledge, and collaboration with coordinating communities.
Audience: Both Grad & Undergrad

4. Understand how to coordinate effectively with community organizations to undertake multidisciplinary arts and humanities grant-funded project planning with public programming goals such as festivals, exhibitions, publications, audio-visual productions, and digital archival collections.
Audience: Graduate

L I S 500 – CODE AND POWER
3 credits.

Prepares students to analyze and critique the portrayal of race, gender and computing in various media outlets and to consider their own potential as contributors to the computing industries in light of media portrayals and their own self-perceptions. As students confront assumptions about gender race and computing, this course will also equip them with the skills necessary to confidently design, develop, and discuss web scripting aspects related to PHP website development.
Requisites: Junior standing
Course Designation: Ethnic St - Counts toward Ethnic Studies requirement
Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 501 – INTRODUCTION TO TEXT MINING
3 credits.

Introduces computational methods and tools for processing, analyzing, and understanding text data. Topics include text data preparation and preprocessing, models of text content and meaning, exploratory text analytics, text classification, information extraction from texts, ethical issues in natural language processing (NLP), and related applications in information sciences and other fields. Develops practical skills to design and implement text mining solutions using popular NLP tools and programming packages.
Requisites: Junior standing and Satisfied Quantitative Reasoning (QR) A requirement or graduate/professional standing
Course Designation: Breadth - Natural Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Understand and apply the general natural language processing (NLP) pipeline to process text data
Audience: Both Grad & Undergrad

2. Understand and use computational models to represent text contents and meanings
Audience: Both Grad & Undergrad

3. Perform exploratory text analysis to understand the contents, topics, and characteristics of a text corpus
Audience: Both Grad & Undergrad

4. Design, implement, and evaluate solutions to categorize texts and extract information from texts
Audience: Both Grad & Undergrad

5. Understand ethical issues and concerns related to natural language processing and language technologies
Audience: Both Grad & Undergrad

6. Critically evaluate and compare different text mining solutions
Audience: Graduate

L I S 510 – HUMAN FACTORS IN INFORMATION SECURITY
3 credits.

Introduction to personal, social, and organizational concepts, skills, and processes related to the information security of individuals and organizations. Preparation to help individuals and organizations enhance their own security and privacy, especially but not exclusively online.
Requisites: Junior standing
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Communicate clearly and effectively to non-expert audiences about security vulnerabilities and security-related incidents.
Audience: Both Grad & Undergrad

2. Mitigate common human-centered risks to information security and privacy.
Audience: Both Grad & Undergrad

3. Develop awareness of the structure of the information security field, and career opportunities within it.
Audience: Both Grad & Undergrad

4. Build strategies and sources for current awareness of security issues.
Audience: Both Grad & Undergrad

5. Demonstrate understanding of professional competencies important for management of information organizations.
Audience: Graduate

6. Demonstrate understanding of societal, legal, policy or ethical information issues.
Audience: Graduate

7. Demonstrate understanding of issues surrounding marginalized communities and information.
Audience: Graduate

L I S/NURSING 517 – DIGITAL HEALTH: INFORMATION AND TECHNOLOGIES SUPPORTING CONSUMERS AND PATIENTS
3 credits.

Increases student understanding of appropriate and accurate materials for consumer health and family education; the ethical and organizational policy issues that arise when providing consumer and family health information in different settings; the role of the public media in disseminating health information; the health-related information needs and preferences of racial/ethnic minority populations. It also provides an introduction to health information technologies, from search engines to websites to apps, that put people in charge of managing their own health information.
Requisites: Junior standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S/AMER IND 521 – TRIBAL LIBRARIES, ARCHIVES AND MUSEUMS (TLAM) PRACTICUM
3 credits.

Builds upon and strengthens relationships between the iSchool and tribal libraries, archives and museums, with a special emphasis on Native Nations of Wisconsin. Partnerships between UW and tribal institutions provide an opportunity to demonstrate and analyze field experience and reciprocal and respectful relationships while also gaining and assessing professional practice under guidance and direction from course instructor and host site supervisor.
Requisites: L I S 520 and graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Learning Outcomes: 1. Demonstrate an understanding and application of cultural humility
Audience: Graduate

2. Articulate the connection between an institution and the community it serves
Audience: Graduate

3. Demonstrate effective communication in order to contribute to the host tribal cultural institution as a professional member of a team
Audience: Graduate

4. Design a community-based participatory research project utilizing Indigenous research methods
Audience: Graduate

L I S 601 – INFORMATION: PERSPECTIVES AND CONTEXTS
3 credits.

Provides an introduction to major themes and topics in information studies as well as the language and literature of the field and related disciplines. This course is about information, information agencies, and being an information professional. We look at social, historical, ethical, legal and political issues surrounding information dissemination, use, control, and management.
Requisites: Graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 602 – INFORMATION: ORGANIZATION AND SEARCH
3 credits.

Introduces basic concepts and principles of information organization and online searching. Gain knowledge of information organization and retrieval theories and methods and knowledge of large database structures and database searching techniques. Critically examine the impact of information organization practices on organizations and culture. Learn how to develop information organizing systems and to evaluate and improve search systems.
Requisites: Graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025

L I S 603 – RESEARCH AND ASSESSMENT FOR INFORMATION PROFESSIONALS
3 credits.

Introduces students to research, evaluation and assessment practices. Prepares students to design and implement a research or assessment project. Provides an overview of commonly employed data collection methodologies and introduces students to both qualitative and quantitative analysis approaches that may be employed in evaluation, assessment and research.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S/COMP SCI 611 – USER EXPERIENCE DESIGN 1
3 credits.

Introduction to the user experience design including key stages of the design process, design ethics, and the methods and tools involved at each stage of design. Conduct formative research on clients, users, use contexts and tasks. Gain experience with user research methodologies and learn to create intermediate design tools such as personas. Develop and present a design proposal for a chosen project.
Requisites: Declared in Information MS, Design + Innovation MS , or Capstone Certificate in User Experience Design
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025
Learning Outcomes: 1. Apply fundamental concepts and practices of user experience design
Audience: Graduate

2. Understand the ethics of design including practices of inclusive design and accessibility
Audience: Graduate

3. Conduct formative research to inform design
Audience: Graduate

4. Apply common user data collection methods
Audience: Graduate

5. Analyze and visualize processes across time and interfaces
Audience: Graduate

6. Create and apply common UX design tools such as personas, scenarios and user journey maps
Audience: Graduate

7. Effectively convey the output of user research and initial design through oral and written communication.
Audience: Graduate

L I S/COMP SCI 612 – USER EXPERIENCE DESIGN 2
3 credits.

Advanced study of UX design. Introduces processes of ideation, key concepts of visual design, conceptual and interaction design, low and high-resolution prototyping of design techniques. Applications include drafting designs based on user models and initial testing of prototypes.
Requisites: COMP SCI/L I S 611 and Declared in Information MS, Design + Innovation MS, or Capstone Certificate in User Experience Design
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Develop design ideas and communicate them through brainstorming, sketching, and modeling;
Audience: Graduate

2. Create designs that follow principles of and best practices in visual and interaction design;
Audience: Graduate

3. Prototype designs using rapid prototyping methods for communication and testing;
Audience: Graduate

4. Understand human perceptual, cognitive, and motor processes involved in interaction;
Audience: Graduate

5. Evaluate designs using expert- and empirical-evaluation methods;
Audience: Graduate

6. Integrate design, prototyping, and evaluation methods and principles into a process toward addressing a design problem
Audience: Graduate

7. Communicate their ideas to others, integrate feedback into their design work, and critique the work of others constructively.
Audience: Graduate

L I S/COMP SCI 613 – USER EXPERIENCE DESIGN 3
3 credits.

Conduct formal evaluations of the user experience (UX) or usability of a digital system. Gain familiarity with the evaluation and research process including key stages, tasks for each stage, common data collection and analysis methods, and common tools employed in the field. Gain experience with a variety of UX evaluation approaches. Collect pilot data and develop a proposal for further UX testing.
Requisites: COMP SCI/L I S 612 and Declared in Information MS, Design + Innovation MS, or Capstone Certificate in User Experience Design
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025
Learning Outcomes: 1. Demonstrate understanding of a variety of UX testing approaches
Audience: Graduate

2. Plan and implement all phases of testing for a digital system including planning, data collection, analysis and reporting
Audience: Graduate

3. Demonstrate understanding of the relationship among research design, instruments, metrics, and data analysis
Audience: Graduate

4. Implement major testing approaches such as task-based, information architecture and accessibility
Audience: Graduate

5. Have knowledge of contemporary tools used for UX testing
Audience: Graduate

6. Communicate evaluation findings effectively and use data to improve systems design
Audience: Graduate

L I S/COMP SCI 614 – USER EXPERIENCE DESIGN CAPSTONE
1 credit.

Applies a design studio critique approach to produce a learning environment of collaborative and interdisciplinary peer critique and learning, in addition to provide expert feedback and suggestions. Present and defend the latest iteration of the user experience design project developed in earlier courses while learning about the professions associated with digital user experience design.
Requisites: COMP SCI/L I S 613 and declared in Design + Innovation MS, or the Capstone Certificate in User Experience Design
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Summer 2025
Learning Outcomes: 1. Knowledge of, and ability to apply, data collection and analysis methodologies for user experience research.
Audience: Graduate

2. Knowledge of, and ability to apply, design principles and user behavior theories to digital environments.
Audience: Graduate

3. Create, critique and revise design prototypes based on testing data and feedback
Audience: Graduate

4. Effectively plan, manage and communicate a user experience design project.
Audience: Graduate

L I S 615 – SYSTEMS ANALYSIS AND PROJECT MANAGEMENT FOR INFORMATION PROFESSIONALS
3 credits.

Introduces established and evolving methodologies for the analysis, design, and development of information systems involving people, data/information and technologies. Introduces students to basic concepts and tools of project management. Learn to apply systems analysis and project management methods to solve real world problems involving information flows and interactions.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025
Learning Outcomes: 1. Understand and apply contemporary techniques and methodologies for systems analysis
Audience: Graduate

2. Understand and apply contemporary techniques and methodologies for project management
Audience: Graduate

3. Solve real-world information flow and information interaction problems with applying systems analysis and project management methodologies
Audience: Graduate

4. Effectively present analysis and solutions in both oral and written communications
Audience: Graduate

L I S 616 – RECORDS MANAGEMENT
1-3 credits.

An introduction to the role of records in society and to the principles and practices involved in managing records (both paper and electronic) in private and public sector organizations.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025

L I S/MUSIC 619 – MUSIC RESEARCH METHODS AND MATERIALS
3 credits.

Historical and contemporary bibliography resources for musical scholarship; general reference tools of scholarly work and specific musicological works.
Requisites: Graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Identify, describe, and appraise musical scholarship resources in multiple formats.
Audience: Both Grad & Undergrad

2. Refine research topic through collaboration with faculty, librarians, and peers.
Audience: Graduate

3. Narrow and define scope of research questions through exploratory and iterative search methods.
Audience: Graduate

4. Conduct efficient and structured searches using bibliographic research tools.
Audience: Graduate

5. Critically evaluate sources for authority, audience, credibility, coverage, and bias.
Audience: Graduate

6. Compare and critique academic perspectives on a topic.
Audience: Graduate

7. Design and carry out an original written musicological research project which integrates contemporary academic conversations with personal research interests.
Audience: Graduate

L I S/CURRIC 620 – FIELD PROJECT IN LIBRARY AND INFORMATION AGENCIES
3 credits.

Analysis of field experience through seminars, individual conferences, required reading and consultations with cooperating librarians and information specialists. Enrollment limited.
Requisites: L I S 601 and 602 or concurrent enrollment
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 622 – CHILDRENS LITERATURE
3 credits.

Traditional sources to the present; criticism and evaluation; contemporary trends and issues. Techniques of reading guidance in school or public library in relationship to developmental interests, needs and skills of children.
Requisites: Junior standing
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025

L I S 629 – MULTICULTURAL LITERATURE AND RESOURCES FOR CHILDREN AND YOUTH
3 credits.

Focuses on issues of diversity in literature and other media for children and young adults. Considers representation of ethnicities, socioeconomic status, gender, sexual orientation and (dis)ability. Issues addressed include authenticity, representation, cultural correctness, reader response and intellectual freedom. Students will gain skills to advocate for, promote, and assess multicultural resources; develop a collection; and understand issues related to cultural competence and reader response.
Requisites: Junior standing
Course Designation: Ethnic St - Counts toward Ethnic Studies requirement
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 631 – LITERATURE AND RESOURCES FOR YOUTH
3 credits.

A survey of media interests and needs of young adults including books, film, television, audio, and production technologies. Critically examines media trends, materials, selection criteria, recommendations, and censorship. Students will develop an ability to advocate for and promote materials according to intellectual, emotional, social and physical needs of young adults.
Requisites: Junior standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2025

L I S 632 – METADATA STANDARDS AND XML
3 credits.

An overview of the design and use of metadata for resource description and retrieval in digital environments. Learn to implement and evaluate standard schemes used in cultural heritage, commercial and other contexts including Dublin Core, MODS, VRA and others. Issues of information behavior, interoperability, quality control, vocabulary control and project management are covered.
Requisites: L I S 602
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025

L I S 635 – REFERENCE AND INFORMATION SERVICE
3 credits.

Theories, principles and practices of reference and information services.
Requisites: L I S 601 and 602 or concurrent enrollment
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 639 – PEDAGOGICAL THEORY AND PRACTICE FOR INFORMATION PROFESSIONALS
3 credits.

Introduction to pedagogical theory, training tools, and teaching skills needed in a variety of informational instructional settings such as academic and public libraries, archival institutions, museums, and software training facilities. Applicable for students interested in information literacy instruction, online teaching, technology training, and group instruction..
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 640 – TOPICS IN LIBRARY AND INFORMATION STUDIES
1-3 credits.

Current issues in library and information studies that are not addressed in sufficient depth in existing courses or that combine facets of several existing courses.
Requisites: Junior standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2026

L I S 642 – READING INTERESTS OF ADULTS
3 credits.

An examination of the nature and societal functions of a variety of mass media-generated adult reading materials, the standards by which they are judged, and their relationship to contemporary library and information science fields.
Requisites: Junior standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

L I S 644 – DIGITAL TOOLS, TRENDS AND DEBATES
3 credits.

Overview of information and communications technologies, digital media, and standards in relationship to information agencies, within the context of current societal controversies. Promotes technical knowledge of ICT and critical analysis of controversies surrounding ICT development, use and modification.
Requisites: Junior standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S/LEGAL ST 645 – INTELLECTUAL FREEDOM
3 credits.

An examination of intellectual freedom in the United States including censorship, minors' rights, the Internet, privacy, and copyright with focus on theoretical questions related to the First Amendment to the U.S. Constitution, and historical developments.
Requisites: Junior standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 646 – INTRODUCTION TO INFO ARCHITECTURE AND INTERACTION DESIGN FOR THE WEB
3 credits.

Basic concepts in information architecture, digital interaction design, usability testing, navigation, evaluation, and accessibility through planning, design and development of a web based information product or service. Also covers introductory web development technologies.
Requisites: Junior standing
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Apply the theoretical principles of information architecture and web usability.
Audience: Undergraduate

2. Organize information logically and strategically.
Audience: Undergraduate

3. Apply knowledge of web design by building an accessible interactive website using HTML and CSS.
Audience: Undergraduate

4. Communicate information architecture concepts clearly and persuasively in oral, written, and visual communication.
Audience: Undergraduate

5. Define theoretical principles of information architecture and web usability.
Audience: Graduate

6. Describe web standards, usability and accessibility, project planning, project management, web evaluation, and website design as an ongoing, iterative process.
Audience: Graduate

7. Use teamwork to balance the desires of all parties involved in launching an organization's website, with concern for usability and accessibility, responsive design, and other web design principles and standards to create an effective website.
Audience: Graduate

8. Create, organize, and design websites that use information architecture principles, adhere to usability and accessibility guidelines, and are consistent with web standards, regardless of the type of website.
Audience: Graduate

L I S/ART HIST/HISTORY/JOURN 650 – HISTORY OF BOOKS AND PRINT CULTURE IN EUROPE AND NORTH AMERICA
3 credits.

History of books and print culture in the West from ancient times to the present. Focus on the influence of reading and writing on social, cultural, and intellectual life. Methodologies, theories, and sources for study of book and print culture history.
Requisites: Graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2025
Learning Outcomes: 1. Identify and explain important people, themes, and events in print and book culture in North America and Europe.
Audience: Both Grad & Undergrad

2. Identify and explain historical arguments in secondary sources.
Audience: Both Grad & Undergrad

3. Analyze primary sources and know what questions to ask to be able to do that.
Audience: Both Grad & Undergrad

4. Produce original historical knowledge through research in primary and secondary sources.
Audience: Both Grad & Undergrad

5. Critically evaluate ideas from primary and secondary sources, integrating (or contrasting) different historical perspectives and develop new historical perspectives.
Audience: Graduate

L I S 651 – CATALOGING AND CLASSIFICATION
3 credits.

Basic cataloging and classification principles and suitable techniques. Includes descriptive cataloging, selected entry headings, Sears subject headings, Dewey Decimal Classification, book numbers, and cataloging with supplied copy including OCLC editing.
Requisites: L I S 602
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 654 – INFORMATION SERVICES MANAGEMENT
3 credits.

Survey of concepts and skills necessary to perform in an information services organization. Service needs assessment, goal and objective setting, staffing, budgeting and evaluation.
Requisites: Graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025

L I S 655 – COLLECTION MANAGEMENT
3 credits.

Collection development designed to teach professional skills in selection and control of collections. Examines large societal forces affecting the ways librarians have traditionally built collections and contemporary changes in access and ownership.
Requisites: L I S 601 and 602 or concurrent enrollment
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 661 – INFORMATION ETHICS AND POLICY
3 credits.

Overview of modern ethical theories and how they inform information agency policies and practices; examines selected policy issues relating to information and communications; includes topics such as intellectual property, privacy, censorship, equity of access.
Requisites: Junior standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2024

L I S/LEGAL ST 663 – INTRODUCTION TO CYBERLAW
3 credits.

The emphasis is on critical thinking about a broad variety of legal and policy problems that arise because of ever-changing information and communication technologies.
Requisites: Junior standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025

L I S 665 – TOPICS IN RACE AND ETHNICITY IN THE INFORMATION SOCIETY
3 credits.

Discusses issues in the provision of information services in a multiethnic and multilingual society. It also discusses the role of information institutions in promoting and preserving ethnic heritage.
Requisites: Sophomore standing
Course Designation: Ethnic St - Counts toward Ethnic Studies requirement
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2019

L I S 668 – DIGITAL CURATION AND COLLECTIONS
3 credits.

Core concepts and new developments in digital curation, preservation and digital collections. Topics include: digitization of various media; digital preservation; media archeology; basics of research data management; digital collection technologies and workflows; intellectual-property issues; metadata as applied in digital collections; digital collections planning and evaluation; trusted digital repositories; funding of digital collection projects and sustainability.
Requisites: Graduate/professional standing
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S/JOURN 677 – CONCEPTS AND TOOLS FOR DATA ANALYSIS AND VISUALIZATION
3 credits.

An introduction to information and data visualization: introduction to major concepts, instruction in specific tools for data analysis and visualization, and application of skills in a final project.
Requisites: None
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Investigate practical and ethical challenges of collecting, managing, analyzing and presenting data.
Audience: Both Grad & Undergrad

2. Summarize the basic grammar and principles for data visualization.
Audience: Both Grad & Undergrad

3. Handle the R language for managing data and creating visualization.
Audience: Both Grad & Undergrad

4. Compute basic statistical concepts in data analysis and visualization.
Audience: Both Grad & Undergrad

5. Practice handling and visualizing tabular, textual (e.g., social media posts), and geospatial data.
Audience: Both Grad & Undergrad

6. Develop a research study.
Audience: Graduate

L I S 678 – PRESERVATION AND CONSERVATION OF LIBRARY AND ARCHIVES MATERIALS
3 credits.

Basic concepts, principles, and approaches to protection and care of library and archives material, including nature and structure of paper- and plastic-based materials, deterioration, preservation management, disaster prevention, reformatting, and repair.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S/COM ARTS 705 – INTRODUCTORY ANALYTICS FOR DECISION MAKING
3 credits.

Introduces key stages in the processes of gathering and analyzing data for decision making, including tasks, methods, and tools used at each stage. Topics include developing the research question from organizational goals, choosing appropriate data collection methods, sampling, basics of measurement and question design, managing and visualizing data, descriptive statistics and basic inferential statistics such as correlations, regressions, and ANOVA.
Requisites: Graduate/professional standing or Declared in Analytics for Decision Making capstone certificate
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 706 – DATA MINING PLANNING AND MANAGEMENT
3 credits.

Prepares students to plan, manage and assess a data mining project in light of organizational strategic goals. Introduces stages of a data mining project, data mining project evaluation frameworks, and principles of data ethics related to data mining. Learn and apply introductory data mining tools and techniques for data clustering, dividing data into classes, making predictions and identifying networks.
Requisites: L I S/COM ARTS 705
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025
Learning Outcomes: 1. formulate questions related to existing organizational goals or challenges, identify sources of data to answer those questions, and design and implement a data analysis plan to answer the questions
Audience: Graduate

2. demonstrate competency with a range of data collection and analysis techniques and tools appropriate to organizational decision making and assessment including the basics of data mining
Audience: Graduate

3. effectively communicate the rationale for a data project and the results of their analysis across different types of media and using best practices of textual and visual communications.
Audience: Graduate

4. articulate the possible information value and the limitations of data and analytics projects including data mining projects based on understanding of data quality, data availability, metadata functionality and other data management issues.
Audience: Graduate

L I S 707 – DATA VISUALIZATION AND COMMUNICATION FOR DECISION MAKING
3 credits.

Introduces key concepts in data visualization and communication including how and why visualization can be an effective tool for summarizing, analyzing and communicating about data, and limitations and challenges of using visualization techniques. Students will use contemporary software to develop visualization dashboards and presentations as well as plan appropriate types of visualization(s) based on source data, audience, and goals, evaluate visualizations for effectiveness and bias.
Requisites: Graduate/professional standing or Declared in Analytics for Decision Making capstone certificate
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025

L I S 711 – DATA MANAGEMENT FOR INFORMATION PROFESSIONALS
3 credits.

Preparation to effectively and ethically manage, organize and protect the data in organizational settings. Covers major topics of data management addressed by the Certified Data Management Professional certification. Assess, construct and implement workflows, organizational policies and data architecture to improve data quality and security. Learn to clean and organize data for effective retrieval and use. Learn tools and techniques to support data interoperability, and gain understanding of contemporary data management ethical and policy issues.
Requisites: Graduate Students Only
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2025
Learning Outcomes: 1. Identify common organizational data governance objectives and describe strategies to meet them
Audience: Graduate

2. Apply practices for provenance, security, storage and metadata within different organizational settings
Audience: Graduate

3. Apply basic data manipulation and cleaning techniques and tools to various types of data
Audience: Graduate

4. Demonstrate understanding of legal, policy and ethical issues related to data management
Audience: Graduate

5. Demonstrate professional communications and teamwork capacities and the ability to use collaborative technologies to work collaboratively with others
Audience: Graduate

6. Integrate data, information technologies, and an understanding of human information behavior to solve organizational, community or social problems.
Audience: Graduate

L I S 712 – THE PUBLIC LIBRARY
3 credits.

Library service based on knowledge of structure and government, personnel, resources, legislation, building, management and planning, public relations and marketing.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 722 – COLLEGE AND UNIVERSITY LIBRARIES
3 credits.

Place of the library and librarian in the instructional program; special units of study devoted to administration of the library, budgets, buildings, departmental libraries and cooperative ventures.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 732 – STRATEGIC INFORMATION SERVICES
3 credits.

Developing, managing and evaluating information services to corporate, government, research, small business, and community organizations. Overviews of knowledge management, business intelligence, industry analysis, information brokering. Gain skills in information service entrepreneurship and marketing information services. Overview of changes within the profession and networking within the professional community.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

L I S/HISTORY 734 – INTRODUCTION TO ARCHIVES AND RECORDS MANAGEMENT
3 credits.

An introduction to the archives profession and basic theory and practice of archives and records administration, including the uses of primary sources in research, appraisal, access, and preservation.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2025

L I S 751 – DATABASE DESIGN FOR INFORMATION PROFESSIONALS
3 credits.

Introduction to contemporary database management systems, the design process employed when implementing databases to solve data and information management problems, developing queries and scripts, and other issues in employing databases to solve organizational information and data challenges.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026
Learning Outcomes: 1. Understand conceptual design concepts of contemporary database systems
Audience: Graduate

2. Be able to implement design concepts to create and manage a database given a database system
Audience: Graduate

3. Use notation systems to develop and communicate a database design to others
Audience: Graduate

4. Understand basic principles of scripting languages and their use in making databases web accessible
Audience: Graduate

5. Use SQL or other tools to create and manage a database as well as to manipulate data and produce queries
Audience: Graduate

L I S 755 – ELECTRONIC RESOURCE MANAGEMENT & LICENSING
3 credits.

Management, policy and technology issues associated with licensed digital library resources such as e-journals, e-books, full text and citation databases, digital audio and video collections, and e-references resources. Includes a significant copyright and licensing component.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 768 – DIGITAL HUMANITIES ANALYTICS
3 credits.

Learn and apply introductory technology-related concepts and skills to plan, implement and assess data-driven projects in the humanities, social sciences and other fields. Topics include identifying relevant existing digitized materials, web scraping, text encoding, topic modeling, mapping, social network analysis and other approaches for collecting, analyzing and visualizing data.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 772 – LIBRARY SERVICES TO CHILDREN AND YOUNG ADULTS
3 credits.

The theory and structure of public library service to children and young people, its function in the community, and techniques of administration. Seminar and field work.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S/CURRIC/ED PSYCH 803 – COMPUTATIONAL RESEARCH METHODS
3 credits.

Provides a broad overview of ways of formulating and investigating novel questions with tools from educational data mining and learning analytics including social network analysis, natural language processing, Markov modeling, Bayesian inference, and agent-based modeling.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 818 – ARCHIVES ACCESSIONING AND APPRAISAL
3 credits.

Theories and principles behind archival decisions to acquire records and designate them as worthy of long-term retention in an archive. Emphasis on understanding archival views about society, the role of the archivist, and the attribution of value to archival material.
Requisites: L I S/HISTORY 734 or concurrent enrollment
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2025

L I S 839 – SPECIAL COLLECTIONS
1-3 credits.

A topical course focusing on a special subject (art, law, music, health sciences) or format (maps, microforms, rare books, iconographic materials). Issues related to collection development, acquisitions, reference, indexing and management.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2018

L I S 855 – TOPICS IN INFORMATION AGENCY MANAGEMENT
1-3 credits.

Critical examination of selected management techniques in the areas of materials control, physical plant operations, personnel programs, budget preparation and statistical reporting. May also focus on a particular type of information agency; e.g., data analysis centers, research libraries, or public libraries.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2026

L I S 862 – TEACHING & LEARNING PRACTICUM
3 credits.

Guided practice in teaching and learning in libraries at the university level. Participants will engage in fieldwork that includes assisting teaching librarians in their instructional roles and performing other teaching related tasks at assigned sites.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2026

L I S 875 – TOPICS IN INFORMATION PROCESSING AND RETRIEVAL
1-3 credits.

Current issues in technologies for information processing and retrieval in libraries and information agencies.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2026

L I S 910 – WAYS OF KNOWING IN INFORMATION STUDIES
3 credits.

Understand different epistemological approaches in information fields. Develop an understanding of different approaches to how new knowledge is produced including how people acquire, organize, shape and convey new knowledge and information.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2023
Learning Outcomes: 1. Add to existing bodies of theory, scholarship, or scientific knowledge through critique, testing or extension in scholarly output
Audience: Graduate

2. Effectively communicate epistemological theories to an academic audience
Audience: Graduate

L I S 920 – SEMINAR IN INFORMATION STUDIES
3 credits.

Advanced exploration of selected topics from different disciplinary, methodological, and theoretical approaches within information studies.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, for 5 number of completions
Last Taught: Spring 2026
Learning Outcomes: 1. Compare and summarize theory, scholarship, and scientific knowledge in information studies and related fields
Audience: Graduate

2. Effectively communicate selected theoretical approaches to an academic audience
Audience: Graduate

L I S 925 – PROFESSIONAL WRITING AND READING (PWR) SEMINAR
1 credit.

Provides professional development for doctoral-level researchers. Includes presentations by guest speakers and/or faculty members, writing workshops, reflection assignments and student presentations.
Requisites: Declared in Information PhD
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, for 6 number of completions
Last Taught: Spring 2026
Learning Outcomes: 1. Identify major outlets and publishing norms for your research area
Audience: Graduate

2. Describe and employ writing and public presentation conventions specific to your research area
Audience: Graduate

3. Employ strategies to help you be productive and grow professionally now and in the future
Audience: Graduate

4. Articulate different career options and pursue those career options in your field of study
Audience: Graduate

5. Describe strategies to engage with materials presented by a range of scholars from different disciplines
Audience: Graduate

L I S 931 – SEMINAR IN INFORMATION POLICY, MANAGEMENT AND INSTITUTIONS
3 credits.

Survey of research and theorizing of: information policy and law, the management of information within and between organizations - including information technology and information labor, and investigation of traditional and new institutions in the information society.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2025

L I S 940 – SEMINAR IN INFORMATION USE AND USERS IN CONTEXT
3 credits.

Exploration of information needs, information seeking behavior, and information use by people in various roles, situations, and contexts that go beyond libraries. It includes exploring factors that influence a user's information needs and behavior.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2024

L I S 950 – SEMINAR IN LIS FOUNDATIONS: HISTORIES, PHILOSOPHIES AND DEBATES
3 credits.

An in-depth examination of some aspect(s) of the historical and philosophical foundations of LIS as it has been transformed through time and space, within the broader cultural context.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

L I S 975 – SEMINAR IN INFORMATION ORGANIZATION AND ACCESS
3 credits.

Critical examination of technical and non-technical aspects and cognitive/socio-cultural processes and implications of systems and models of information organization, retrieval and transfer. Introduces different research approaches and topic areas, including relevance, search behavior, knowledge representation, and systems design and evaluation.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2025

L I S 990 – RESEARCH AND THESIS
1-9 credits.

Dissertation credits.
Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2026

L I S 999 – INDEPENDENT READING AND RESEARCH
1-4 credits.

Concentrated work on a subject or problem of the student's need or interest; students must submit a written report, paper, or other product covering the work accomplished.
Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2026