Class Schedule - Spring 2018

Information Sciences
School of Information Sciences
Associate Dean: Linda C. Smith
School Office: 112A Library and Information Science Building, 501 East Daniel Street, Champaign
Phone: 217-333-3280
www.lis.illinois.edu

IS 202  **Social Aspects Info Tech**  credit: 3 hours.
Same as INFO 202 and MACS 202. See INFO 202.
This course satisfies the General Education Criteria for a:

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<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>66606</td>
<td>Discussion/Recitation</td>
<td>AD1</td>
<td>02:00 PM - 02:50 PM</td>
<td>R</td>
<td>1118 - Foreign Languages Building</td>
<td>Takazawa, A</td>
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<tr>
<td>66607</td>
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<td>03:00 PM - 03:50 PM</td>
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<tr>
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<td>1068 - Lincoln Hall</td>
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</table>
IS 390  **Special Topics in Information Studies**  credit: 1 TO 3 hours.
Directed and supervised investigation of selected topics in information studies that may include among others computers and culture; information policy; community information systems; production, retrieval and evaluation of scientific or social science knowledge; computer-mediated communication; and computer-supported cooperative work. May be repeated. Prerequisite: Sophomore standing.

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<tr>
<td>67703</td>
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<td>W1A</td>
<td>11:00 AM - 12:20 PM</td>
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<td>FAB LAB - Art-East Annex, Studio 2</td>
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Credit Hours: 3 hours
Web Technologies & Techniques
Not intended for students with Freshman class standing. Restricted to Undergrad - Urbana-Champaign.
Open to sophomores, juniors and seniors. Description: This course provides an introduction to the technologies behind the Web. Topics covered include: hypertext, hypermedia, the history of the Web, the role of Web standards and their impact on the development of Web resources. The course introduces principles of Web design and usability. Students will gain an understanding how the Web works and how to design, construct, evaluate, and maintain Web-based materials.

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</table>

Credit Hours: 3 hours
Web Technologies & Techniques
Not intended for students with Freshman class standing. Restricted to Undergrad - Urbana-Champaign.
Open to sophomores, juniors and seniors. Description: This course provides an introduction to the technologies behind the Web. Topics covered include: hypertext, hypermedia, the history of the Web, the role of Web standards and their impact on the development of Web resources. The course introduces principles of Web design and usability. Students will gain an understanding how the Web works and how to design, construct, evaluate, and maintain Web-based materials.

IS 404  **Literature and Resources for Young Adults**  credit: 2 TO 4 hours.
Evaluation, selection and use of books and other resources for young adults (ages 12-18) in public libraries and school media centers; explores standard selection criteria for print and nonprint materials in all formats and develops the ability to evaluate and promote materials according to their various uses (personal and curricular) and according to young adults' various needs (intellectual, emotional, social and physical). 3 undergraduate hours. 2 or 4 graduate hours. Prerequisite: For undergraduates, junior or senior standing and consent of instructor.

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<td>46 - Grad Sch of Lib &amp; Info Science</td>
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Restricted to Graduate - Urbana-Champaign.
Meets with IS 404 AU.

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<td>-</td>
<td>Mitts Smith, D</td>
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Restricted to students in the Information Sciences department.
Restricted to graduate students in the School of Information Sciences.
IS 409  **Storytelling**  credit: 2 TO 4 hours.

Fundamental principles of the art of storytelling including techniques of adaptation and presentation; content and sources of materials; methods of learning; practice in storytelling; planning the story hour for school and public libraries and other public information settings; and audio, video, and digital media. 3 undergraduate hours. 2 or 4 graduate hours. Prerequisite: For undergraduates, junior or senior standing and consent of instructor.

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Restricted to Graduate - Urbana-Champaign. 2 or 4 hours; Meets with IS 409 AG.

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Restricted to students in the Information Sciences department. 2 or 4 credits. Restricted to graduate students in the School of Information Sciences.

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Restricted to students in the Information Sciences department. 2 or 4 credits. Restricted to graduate students in the School of Information Sciences.

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<td>McDowell, K</td>
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Credit Hours: 3 hours  
Instructor Approval Required  
Not intended for students with Freshman or Sophomore class standing. Restricted to Undergrad - Urbana-Champaign. Contact Professor Kate McDowell for approval (kmcdowel@illinois.edu) Meets with IS 409 AG.

IS 418  **Community Engagement**  credit: 3 OR 4 hours.

Community engagement refers to the multiple ways that information professionals in libraries and other settings learn about, collaborate with, and provide service and outreach to community members. Provides an introduction to, and overview of, community engagement theory and practice. A significant portion of coursework will take the form of service learning or community-based research via approved projects that match students’ interests. 3 undergraduate hours. 4 graduate hours.

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Credit Hours: 4 hours
IS 445  Information Books and Resources for Youth  credit: 2 TO 4 hours.
Evaluation, selection and use of information books and other resources for young people (ages 0-18) in public libraries and school media centers; explores standard selection criteria for factual print and nonprint materials in all formats and develops the ability to evaluate and promote nonfiction books and resources according to their various uses (personal and curricular) and according to young people's various needs (intellectual, emotional, social and physical). 3 undergraduate hours. 2 or 4 graduate hours.

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Restricted to students in the Information Sciences department.
2 or 4 credits. This is a hybrid course that meets with IS 445 AU and IS 445 AG.

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Restricted to students in the Information Sciences department.
2 or 4 credits. This is a hybrid course that meets with IS 445 AG and IS 445 AU.

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Credit Hours: 3 hours
Not intended for students with Freshman or Sophomore class standing. Restricted to Undergrad - Urbana-Champaign. This is a hybrid course that meets with IS 445 AG and IS 445 AO.

IS 451  Introduction to Network Information Systems  credit: 4 hours.
Hands-on introduction to technology systems for use in information environments. The course steps students through choosing, installing, and managing computer hardware and operating systems, as well as networking hardware and software. The course also explores alternatives for administering IT and how to assess emerging technologies and their applicability to library settings. While students are expected to have basic computer competencies per the School of Information Sciences admissions requirements, the goal of the course is to provide practical detailed knowledge of the technology for all levels of competency. The primary objective is to provide a conceptual understanding of the topics of the day through concrete hands-on examples of implementation. By learning the underlying concepts, students will be better prepared to help design networked systems that not only work well today, but also develop systems that can be easily adapted for the needs and technologies of tomorrow. Additional fees may apply. See Class Schedule. 4 undergraduate hours. 4 graduate hours.
**IS 452  Foundations of Information Processing** credit: 2 OR 4 hours.

Covers common data, document processing, and programming constructs and concepts. Focuses on problem solving and abstraction with a programming language. By the end of the course students will be able to design, develop and test a moderately complex computer program to manage full text, bibliographic records or multimedia. The course prepares students for working with applications in data analytics, data science, digital libraries, text mining and knowledge management. No prior programming background is assumed. 4 undergraduate hours. 2 or 4 graduate hours.
IS 457 **Introduction to Data Science**  credit: 4 hours.

This course introduces students to data science approaches that have emerged from recent advances in programming and computing technology. They will learn to collect and use data from a variety of sources, including the web, in a modern statistical inference and visualization paradigm. The course will be based in the programming language R, but will also use HTML, regular expressions, basic unix tools, XML, and SQL. Supervised and unsupervised statistical learning techniques made possible by recent advances in computing power will also be covered. 4 undergraduate hours. 4 graduate hours.

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<td>Stodden, V</td>
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Restricted to Graduate - Urbana-Champaign. 4 Credit Hours. Meets with IS 457 IDU

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Not intended for students with Freshman or Sophomore class standing. Restricted to Undergrad - Urbana-Champaign. 4 Credit Hours. Meets with IS 457 IDG

IS 458 **Instructional Strategies and Techniques for Information Professionals**  credit: 2 TO 4 hours.

Provides an introduction to learning theories and instructional methods used in a variety of information settings, including libraries, archives, museums, online, and educational environments. Includes an overview of theoretical and applied research and discusses relevant issues and concepts. Students will have an opportunity to design and present an instructional program. 3 undergraduate hours. 2 or 4 graduate hours.

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Restricted to students in the Information Sciences department. 2 or 4 credits.

IS 461 **Museum Informatics**  credit: 4 hours.

The course examines various ways that information technologies are and might be used in museums and other cultural heritage settings. Museum websites, visitor apps, interactive exhibits, and uses of digitized and federated collections are explored. Students gain an introduction to Design Thinking by working on a final project that involves the development of a novel computational resource. Students are encouraged to approach class topics from their individual backgrounds in the humanities, sciences, or social sciences. 4 undergraduate hours. 4 graduate hours. Prerequisite: Junior or senior standing and consent of instructor for undergraduates; consent of instructor for non-iSchool graduate students for on-campus sections.

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IS 462  Information Assurance  credit: 3 OR 4 hours.

The course provides an introduction to the concepts, technologies, practices and challenges of Information Assurance. It takes a broad view of Information Security and Privacy and covers the essential principles for the protection of information systems; the relevant technologies; organizational concerns; policies, human aspects; legal approaches; criminology; and ethical issues. Students will gain an appreciation for the difficulty of designing, developing, deploying and maintaining information systems, services and software products that are secure and comply with expectations of security and privacy. 3 undergraduate hours. 4 graduate hours.

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<tr>
<td>67366</td>
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<td>12A - Grad Sch of Lib &amp; Info Science</td>
<td>Bashir, M</td>
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</table>

Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.
Meets with IS 462 UG3.
Credit Hours: 3 hours
Not intended for students with Freshman or Sophomore class standing. Restricted to Undergrad - Urbana-Champaign. Meets with IS 462 G4.

**IS 483  Ugrad Bioinformatics Seminar**  credit: 0 TO 2 hours.
Same as CPSC 491 and INFO 491. See INFO 491.

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<td>66853</td>
<td>Lecture-Discussion</td>
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<td>12:00 PM - 12:50 PM</td>
<td>R</td>
<td>ARR - Institute for Genomic Biology</td>
<td>Rodriguez-Zas, S</td>
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</table>

**IS 490  Advanced Topics in Information Studies**  credit: 2 TO 4 hours.
Directed and supervised investigation of selected topics in information studies that may include among others the social, political, and historical contexts of information creation and dissemination; computers and culture; information policy; community information systems; production, retrieval and evaluation of knowledge; computer-mediated communication. Additional fees may apply. See Class Schedule. 2 to 4 undergraduate hours. 2 to 4 graduate hours. May be repeated. Prerequisite: For undergraduates, junior standing and IS 202, or consent of instructor.

Class materials fee or field trip fee may be required.

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<td>131 - Grad Sch of Lib &amp; Info Science</td>
<td>Blake, C</td>
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</table>

Credit Hours: 4 hours
Introduction to Databases
Not intended for students with Freshman or Sophomore class standing. Restricted to Graduate - Urbana-Champaign or Undergrad - Urbana-Champaign.
The course provides students with both theoretical and practical training in good database design. By the end of the course students will create a conceptual data model using entity-relationship diagrams, understand the importance of referential integrity and how to enforce data integrity constraints when creating a database. Students will be proficient in writing basic queries in the structured query language (SQL) and have a general understanding of relational database theory including normalization.

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<tr>
<td>67571</td>
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<td>W</td>
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<td>Trainor, K</td>
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Credit Hours: 4 hours
Introduction to Databases
Restricted to students in the Information Sciences department.

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<th>CRN</th>
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### Global Health Informatics

- **Credit Hours:** 3 hours
- **Not intended for students with Freshman or Sophomore class standing.** Restricted to Undergrad - Urbana-Champaign.
- The course will examine the current state of global health informatics from both a local and global perspective, including opportunities and challenges. Focus will be placed on the transition from paper-based records to electronic systems, with a particular emphasis on large international open-source initiatives and use of mobile devices. Guest speakers will share their experiences with WHO, international education based on mobile devices, and regulatory issues. Meets with IS 590 GHG.

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<td>12A - Grad Sch of Lib &amp; Info Science</td>
<td>Linville, C</td>
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### Geographic Information Systems

- **Credit Hours:** 4 hours
- **Not intended for students with Freshman or Sophomore class standing.** Restricted to Graduate - Urbana-Champaign or Undergrad - Urbana-Champaign.
- This course introduces geographic information systems in the broader context of information management in business, government, and civil society. It highlights the importance of location and information about location across these realms. In addition to substantial hands-on work with traditional geographic information systems software, the course will provide exposure to other systems of people, processes, hardware, and software for collecting, managing, analyzing, and visualizing information about locations on the surface of the earth.

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<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tr>
<td>67398</td>
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<td>ITG</td>
<td>09:00 AM - 11:50 AM</td>
<td>R</td>
<td>ARR - Grainger Engineering Library</td>
<td>Twidale, M</td>
</tr>
</tbody>
</table>

### Entrepreneurial IT Design

- **Credit Hours:** 4 hours
- **Restricted to Graduate - Urbana-Champaign.**
- Introduces students to a range of rapid prototyping techniques and methods to analyze needs, opportunities and design spaces. Students will work in teams to develop ideas for novel computational devices or applications to meet identified needs. Covers the interlinked entrepreneurial skills of identifying an unmet need, exploiting technological opportunities, exploring a design space to refine an idea, and communicating a design vision through demonstrations with prototypes and proofs of concept. This enables developers to show how their envisaged working interactive technology will be used productively in a particular real-life context. Communicating the vision of computational devices is a challenge because dynamic use in context is hard for people other than the device's developers to imagine. The ability to produce convincing, clear, powerful demonstrations even at the early stages of a project is a highly valuable entrepreneurial skill, and also highly applicable within an organization. Meets with IS 490 ITU. Class will meet at the IDEA lab at Grainger, 1301 W Springfield, Urbana.

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<tr>
<th>CRN</th>
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</tbody>
</table>

### Entrepreneurial IT Design

- **Credit Hours:** 3 hours
- **Not intended for students with Freshman or Sophomore class standing.** Restricted to Undergrad - Urbana-Champaign.
- Introduces students to a range of rapid prototyping techniques and methods to analyze needs, opportunities and design spaces. Students will work in teams to develop ideas for novel computational devices or applications to meet identified needs. Covers the interlinked entrepreneurial skills of identifying an unmet need, exploiting technological opportunities, exploring a design space to refine an idea, and communicating a design vision through demonstrations with prototypes and proofs of concept. This enables developers to show how their envisaged working interactive technology will be used productively in a particular real-life context. Communicating the vision of computational devices is a challenge because dynamic use in context is hard for people other than the device's developers to imagine. The ability to produce convincing, clear, powerful demonstrations even at the early stages of a project is a highly valuable entrepreneurial skill, and also highly applicable within an organization. Meets with IS 490 ITG. Class will meet at the IDEA lab at Grainger, 1301 W Springfield, Urbana.

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<tr>
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<td>Brunner, R</td>
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</table>
Not intended for students with Freshman class standing. Restricted to Graduate - Urbana-Champaign or Undergrad - Urbana-Champaign.

NOTE: Students must be registered for this course by 4 pm on Wednesday January 17, 2018. No new students will be allowed to register for this class after that. This course will introduce advanced data science concepts by building on the foundational concepts presented in INFO 490: Foundations of Data Science. Students will first learn how to perform more statistical data exploration and constructing and evaluating statistical models. Next, students will learn machine learning techniques including supervised and unsupervised learning, dimensional reduction, and cluster finding. An emphasis will be placed on the practical application of these techniques to high-dimensional numerical data, time series data, image data, and text data. Finally, students will learn to use relational databases and cloud computing software components such as Hadoop, Spark, and NoSQL data stores. Students must have access to a fairly modern computer, ideally that supports hardware virtualization, on which they can install software. This class is open to sophomores, juniors, seniors and graduate students in any discipline who have either taken a previous INFO 490 data science course or have received instructor permission.

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<th>CRN</th>
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Social Media and Global Change
Restricted to Graduate - Urbana-Champaign.
2 or 4 credits. This course covers the impact of global and national computer networks on politics, culture, and social relations during a time of upheaval and revolutionary change. Topics may include the new social media, the politics and culture of the internet, hacktivism, cyber warfare, and mobile telephony and their role in the formation, dissemination, manipulation, and suppression of public opinion in Russia/Eurasia, the China/Pacific region, Central/South America, as well as Africa, Iran, and the Middle East.

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</table>

Credit Hours: 3 hours
Social Media and Global Change
Not intended for students with Freshman or Sophomore class standing. Restricted to Undergrad - Urbana-Champaign.
This course covers the impact of global and national computer networks on politics, culture, and social relations during a time of upheaval and revolutionary change. Topics may include the new social media, the politics and culture of the internet, hacktivism, cyber warfare, and mobile telephony and their role in the formation, dissemination, manipulation, and suppression of public opinion in Russia/Eurasia, the China/Pacific region, Central/South America, as well as Africa, Iran, and the Middle East.

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<th>CRN</th>
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<td>R</td>
<td>-</td>
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</table>

Intro to Technology in LIS
Restricted to students in the Information Sciences department.
2 or 4 credits. This is an introductory course in the fundamentals of technology in LIS. Following an overview of information system concepts, terminology and usage in organizations, there will be discussions covering a wide variety of topics including hardware and software, systems development (traditional and modern methods), programming languages, databases and the internet. Special attention will be paid to the knowledge and skills needed to succeed at the iSchool (servers, file access and management, office software, markup languages, website design and development, etc.) and LIS professional settings. Application of concepts is key. Readings will be supplemented with hands-on exercises and collaborative projects.

**IS 501 Information Organization and Access** credit: 4 hours.
Emphasizes information organization and access in settings and systems of different kinds. Traces the information transfer process from the generation of knowledge through its storage and use in both print and non-print formats. Consideration will be given to the creation of information systems: the principles and practice of selection and preservation, methods of organizing information for retrieval and display, the operation of organizations that provide information services, and the information service needs of various user communities. 4 graduate hours. No professional credit. Required M.S. in library and information science degree core course.

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page 10 - Information Sciences, Spring 2018
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Restricted to Library & Information Science major(s). Restricted to MS:Library & Info Sci -UIUC. This is a 10 week course ending March 30, 2018. Meets with IS 501 B (Lecture). All other students must contact Professor Jodi Schneider at jodi@illinois.edu for approval.

<table>
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Restricted to students in the Information Sciences department. Restricted to MS:Lib & Inf Sci Online-UIUC. Required core course for MS/LIS students.

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Restricted to students in the Information Sciences department. Restricted to MS:Lib & Inf Sci Online-UIUC. Required core course for MS/LIS students.

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</table>

Restricted to Library & Information Science major(s). Restricted to MS:Library & Info Sci -UIUC. This is a 10 week course ending March 30, 2018. Meets with IS 501 A (Lecture). All other students must contact Melissa Ocepek at mgocepek@illinois.edu for approval.

**IS 502 Libraries, Information and Society**  
credit: 2 OR 4 hours.
Explores major issues in the library and information science professions as they involve their communities of users and sponsors. Analyzes specific situations that reflect the professional agenda of these fields, including intellectual freedom, community service, professional ethics, social responsibilities, intellectual property, literacy, historical and international models, the socio-cultural role of libraries and information agencies and professionalism in general, focusing in particular on the interrelationships among these issues. 2 or 4 graduate hours. No professional credit. Prerequisite: Required M.S. in library and information science degree core course.

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Restricted to MS:Library & Info Sci -UIUC. Required core course for MS/LIS students.

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Restricted to MS:Lib & Inf Sci Online-UIUC. Required core course for MS/LIS students.
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<td>Credit Hours: 4 hours</td>
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<td>Restricted to students in the Information Sciences department.</td>
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</table>
IS 507  **Introduction to Bibliographic Metadata**  credit: 4 hours.

Introduction to basic principles and concepts of descriptive and subject cataloging in the context of information service needs for various user communities. Explores principles, structures, standards, technologies and practices relating to organizing and creating access to print and non-print media. Includes coverage of subject analysis and descriptive practices. Introduces controlled vocabularies. 4 graduate hours. No professional credit. Prerequisite: IS 501, or concurrent enrollment in IS 501 and IS 507.

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</table>

Restricted to students in the Information Sciences department.

IS 508  **Collection Development**  credit: 4 hours.

Examines issues affecting the development and management of collections for academic, public, special, and school libraries: collection development policies, collection assessment, the marketplace, publishing, legal issues, and budget allocation; document delivery; collaboration and cooperation. 4 graduate hours. No professional credit. Prerequisite: IS 501, or concurrent enrollment in IS 501 and IS 508.

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</tbody>
</table>

Restricted to students in the Information Sciences department.

IS 515  **Media Literacy for Youth**  credit: 2 OR 4 hours.
Provides students with theoretical knowledge and practical methods useful to librarians and other professionals working with young people and media. Building on traditional understandings of literacy, media literacy explores the consumption and production of diverse types of texts including print, images, games, and music. Topics for this course may include the role of race in media, media literacy as a catalyst for social change, and intellectual property issues related to media education. 2 or 4 graduate hours. No professional credit.

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<td>Tilley, C</td>
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</tbody>
</table>

Media Literacy for Youth
Restricted to students in the Information Sciences department.
All other students must contact Professor Carol Tilley at ctilley@illinois.edu for approval.

67605 | Online | AO | 06:30 PM - 08:30 PM | R    | -                                 | Martaus, A |

Media Literacy for Youth
Restricted to students in the Information Sciences department.

**IS 516 School Library Media Center**  credit: 2 OR 4 hours.
School Library Information Specialists serve children and young adults (ages 5-18) in K-12 school library media centers. Students will acquire specific knowledge, skills and competencies needed to design, develop, integrate and assess curriculum and instruction with an emphasis on the information needs of K-12 students. Readings and projects provide students with opportunities to apply the practical knowledge and skills they have learned about building reading literacy, teaching information literacy skills, collaborating with teachers and integrating resources into teaching and learning. 2 or 4 graduate hours. No professional credit.

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</table>

Restricted to students in the Information Sciences department.

67486 | Online | AO | 05:30 PM - 08:00 PM | T    | -                                 | Shasteen, R |

Restricted to students in the Information Sciences department.

**IS 518 Community Informatics**  credit: 4 hours.
Survey of an emerging field that studies how local, historical communities use information and communication technologies or otherwise access, create, organize, and share information. Covers key principles for working in libraries or the wider non-profit/public sectors as individuals, organizations, and communities harness new technologies and media. Prepares both professionals and researchers, whatever their technology background. Especially useful for those interested in public or community libraries, youth services, university public engagement, social work, education, and anyone interested in working with or studying underserved communities. 4 graduate hours. No professional credit.

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<td>-</td>
<td>Williams, K</td>
</tr>
</tbody>
</table>

Restricted to students in the Information Sciences department.
IS 525  **Government Information**  credit: 4 hours.
Aims to acquaint students with government publications, their variety, interest, value, acquisition, and bibliographic control, and to develop proficiency in their reference and research use; considers publications of all types and all governments (local, national, international) with special emphasis on U. S., state and federal governments, and on the United Nations and its related specialized agencies. 4 graduate hours. No professional credit. Prerequisite: IS 504 or consent of instructor.

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<td>-</td>
<td>Matheson, S</td>
</tr>
</tbody>
</table>

Restricted to students in the Information Sciences department.

IS 527  **Literacy, Reading, and Readers**  credit: 4 hours.
Reading and literacy play a central role in all areas of LIS, as well as in education, communication, literature, and writing studies. This course considers reading as a physical, social, and educational activity that is historically and culturally situated. It provides a multidisciplinary investigation into different forms of literacy and how people acquire them. Drawing upon scholarship in LIS, education, literature, history, sociology, psychology, and anthropology, and with special consideration given to age, gender, class, religion, and culture, we will expand upon traditional notions of literacy and explore the range of scholarly approaches to the study of literacy, reading, and readers. For assignments, students choose between an experiential track, which offers practical experience through volunteer work in a literacy tutoring position, or a scholarship track, which features a research project without a volunteer component. All students have the same weekly readings and share knowledge gained from their volunteer placement and research. 4 graduate hours. No professional credit.

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<td>Smith, D</td>
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Restricted to students in the Information Sciences department.

IS 528  **Adult Popular Literature**  credit: 2 OR 4 hours.
A survey of genre fiction, readers' advisory services, the promotion of fiction, narrative nonfiction & media collections in libraries, the social effects of reading, and publishing as a business. Course objectives include: understanding why adults read for pleasure; gaining familiarity with popular fiction genres and their authors; understanding principles and tools of readers' advisory services; examining the issues of popular fiction publishing including the impact of technology in creating new formats; and the process of acquisition, maintenance, and marketing of popular fiction in libraries. 2 or 4 graduate hours. No professional credit.

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<td>67380</td>
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<td>Towner, M</td>
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</table>

Restricted to Graduate - Urbana-Champaign. Restricted to graduate students in the School of Information Sciences, all other students need department approval. Email ischool-advising@illinois.edu

IS 530  **Information Needs of Particular Communities**  credit: 2 OR 4 hours.
Special topics sections for in-depth study of the characteristics and information needs of specialist users of libraries; goals and objectives, policies, and services; reference and bibliographical aids; and effective services that satisfy these special needs. 2 or 4 graduate hours. No professional credit. May be repeated. Prerequisite: IS 504 or consent of instructor.
Credit Hours: 4 hours
REEES Bibliog Research Methods
Restricted to Graduate - Urbana-Champaign.
[Expanded title: Russian, East European & Eurasian Bibliography and Research Methods]. The IS 504 prerequisite is WAIVED for this 530 section. Description: This course is designed to provide graduate students in both area and information studies with a comprehensive introduction to research techniques in the Russian & East European field. Depending on enrollment, course content is designed to cover a broad range of interests—for example, Central Asia as well as Russia—while demonstrating that many tools serve more than one specialty. The course will also discuss the resources and skills required for digital scholarship, as well as traditional approaches. It will draw on specialists for various sessions, and will include readings, assignments and a final paper.

Credit Hours: 4 hours
Bioinformatics Probs & Res
Restricted to Graduate - Urbana-Champaign.
This course introduces Information Science as an engine of exploration and discovery for Biology. Students will learn: historical origins of bioinformatics; biological organisms and processes as information phenomena; central problems of biology that are addressable with informatics techniques; information representations for biological structures and processes; common information modeling, organization, and analysis tools used in bioinformatics such as databases, networks, ontologies, and simulations; complex sociotechnical dilemmas that arise in the practice of bioinformatics work; and bioinformatics as an important example of data science. Lecture, discussion, and hands-on components.

Credit Hours: 4 hours
Music Libnship & Bibliography
Restricted to students in the Information Sciences department. 2 or 4 credits.

IS 531  Foundations of Data Curation  credit: 4 hours.
Data curation is the active and on-going management of data through its lifecycle of interest and usefulness to scholarship, science, and education; curation activities and policies enable data discovery and retrieval, maintain data quality and add value, and provide for re-use over time. This course provides an overview of a broad range of theoretical and practical problems in the emerging field, examining issues related to appraisal and selection, long-lived data collections, research lifecycles, workflows, metadata, and legal and intellectual property issues. 4 graduate hours. No professional credit.

IS 532  Theory & Practice of Data Cleaning  credit: 4 hours.
Data cleaning (also: cleansing) is the process of assessing and improving data quality for later analysis and use, and is a crucial part of data curation and analysis. This course identifies data quality issues throughout the data lifecycle, and reviews specific techniques and
approaches for checking and improving data quality. Techniques are drawn primarily from the database community, using schema-level and instance-level information, and from different scientific communities, which are developing practical tools for data pre-processing and cleaning. Same as CS 513. 4 graduate hours. No professional credit.

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Restricted to students in the Information Sciences department. This is a hybrid course that meets with IS 532 AO.

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</table>

Restricted to students in the Information Sciences department. This is a hybrid course that meets with IS 532 A.

**IS 539  Information Consulting  credit: 4 hours.**

This course is designed to provide fundamental knowledge in providing research services and also introduce the latest trends and innovative approaches in research services. Information professionals are increasingly being challenged to provide not just data but insights and recommendations that are critical for strategic decision making. Using methodologies widely adopted by professional firms and researchers, this course will cover basics of research consulting including framing research problems, developing deliverables, and presenting professionally. 4 graduate hours. No professional credit.

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Restricted to students in the Information Sciences department.

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Restricted to students in the Information Sciences department.

**IS 540  Applied Business Research  credit: 4 hours.**

As an experiential learning class, this course covers advanced techniques of business research with an emphasis on managing real-world client projects. Students will be assigned to teams and work with clients to identify research requirements and construct recommendations. Students will acquire critical skills in creating professional deliverables through client engagements. Students will build professional research portfolios at the conclusion of their projects. 4 graduate hours. No professional credit. May be repeated in separate terms up to 8 hours if topics vary. Prerequisite: Instructor approval required.

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Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
Students must contact Professor Yoo-Seong Song at Yoosong@illinois.edu for approval to register.
IS 542  **Data, Statistical Models and Information**  credit: 4 hours.
An introduction to statistical and probabilistic models as they pertain to quantifying information, assessing information quality, and principled application of information to decision making, with focus on model selection and gauging model quality. The course reviews relevant results from probability theory, parametric and non-parametric predictive models, as well as extensions of these models for unsupervised learning. Applications of statistical and probabilistic models to tasks in information management (e.g. prediction, ranking, and data reduction) are emphasized. 4 graduate hours. No professional credit. Prerequisite: Graduate standing.

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</table>

Restricted to MS:Information Management-UIUC.
This is a required course for the MSIM degree.

IS 543  **Sociotechnical Information Systems**  credit: 4 hours.
The character, success, and costs/benefits of information technologies are socio-technical matters. Because of this, best practice for IT design and integration relies on participants' ability to understand and create for the totality of those settings, including social and technical dimensions. This course provides students with analytic tools for examining socio-technical settings and experience in applying that knowledge in IT modeling, design and management. 4 graduate hours. No professional credit.

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Restricted to MS:Information Management-UIUC.
This is a required course for the MSIM degree.

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</table>

Restricted to MS:Information Management-UIUC.
This is a required course for the MSIM degree.

IS 545  **Social Justice in the Information Professions**  credit: 2 hours.
This course is intended to provide a historic and contemporary overview of social justice and advocacy work in librarianship. The course will be primarily focused on activities in the United States, though international movements and perspectives will be addressed. Topics include: desegregation of libraries and professional associations; recruitment and retention of library workers from traditionally underrepresented populations; library outreach; intellectual freedom; and emerging critical theories and issues in the field. 2 graduate hours. No professional credit. Prerequisite: Graduate student.

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Restricted to students in the Information Sciences department.

IS 547  **Information Services for Diverse Populations**  credit: 2 OR 4 hours.
This course is designed to prepare future information professionals to develop and provide inclusive services to underrepresented populations, and to analyze and evaluate services to ensure equality of access to information in a range of institutional settings. Through readings, discussion, guest lectures, and site visits, students will explore diversity issues that impact information services and develop skills for planning, implementing, and evaluating programs and services for addressing these issues. Specific diversity issues include race and ethnicity; education; language; literacy; disability; gender and sexual orientation; social class; national origin; physical, psychological, and learning ability; and age. 2 or 4 graduate hours. No professional credit.

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Restricted to students in the Information Sciences department.

**IS 548 Library Buildings** credit: 2 OR 4 hours.

Studies the library's physical plant in the light of changing concepts and patterns of library service; analyzes present-day library buildings (both new and remodeled), and their comparison with each other as well as with buildings of the past; examines the interrelationship of staff, collections, users, and physical plant; discussion supplemented by visits to new libraries and conference with their staffs. A two-day field trip is required. Additional fees may apply. See Class Schedule. 2 or 4 graduate hours. No professional credit.

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<td>109 - Grad Sch of Lib &amp; Info Science</td>
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</table>

IS Field Trip $100.00 Flat Fee. Restricted to Graduate - Urbana-Champaign. Required overnight field trip (Dates to be provided). A non-waived field trip fee of $100 will be assessed to tuition and fees bill. The students will also be responsible for the cost of their meals and one night's lodging. Questions may be directed to the instructor Professor Schlipf at fschlipf@illinois.edu.

**IS 559 Network Analysis** credit: 4 hours.

Network Analysis has become a widely adopted method for studying the interactions between social agents, information and infrastructures. The strong demand for expertise in network analysis has been fueled by the widespread acknowledgement that everything is connected and the popularity of social networking services. This interdisciplinary course introduces students to fundamental theories, concepts, methods and applications of network analysis in a practical manner. Students learn and practice hands-on skills in collecting, analyzing and visualizing network data. 4 graduate hours. No professional credit.

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</table>

Restricted to Graduate - Urbana-Champaign.

**IS 560 Digital Libraries** credit: 4 hours.

A comprehensive examination of the history and state-of-the-art in digital library research and practice. Focuses upon the theoretical, technological, human factors and evaluative components of digital library research and practice. Course includes an intensive reading of the literature, review of existing technologies and proof-of-concepts implementation projects. Students should have access to a personal computer on which they can experiment on their own with downloaded software tools. Students must be competent in basic computing including the installation and configuration of software packages. 4 graduate hours. No professional credit. Prerequisite: IS 501 or consent of instructor; previous or concurrent enrollment in IS 452 (either the 2 credit hours or the 4 credit hours of IS 452 are acceptable), or proof of competency in programming.
IS 561  **Information Modeling**  credit: 4 hours.

An introduction to the foundations of information modeling methods used in current digital library applications. The specific methods considered include relational database design, conceptual modeling, markup systems, and ontologies. The basic concepts underlying these methods are, respectively, relations, entities, grammars, and logic. Implementations include relational database design, ER/EER/UML diagrams, XML markup languages, and RDF/OWL semantic web languages. First order logic is emphasized throughout as the foundational framework for information modeling in general, and for contemporary web-based information management and delivery systems (including semantic web technologies) in particular. 4 graduate hours. No professional credit.

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Credit Hours: 4 hours
Restricted to students in the Information Sciences department.

IS 562  **Metadata in Theory & Practice**  credit: 4 hours.

Combines theoretical examination of the design of metadata schema with their practical application in a variety of settings. Hands-on experience in the creation of descriptive, administrative, and structural metadata, along with their application in systems such as OAI harvesting, OpenURL resolution systems, metasearch systems and digital repositories, will help students develop a thorough understanding of current metadata standards as well as such issues as crosswalking, metadata schema, metadata's use in information retrieval and data management applications, and the role of standards bodies in metadata schema development. 4 graduate hours. No professional credit. Prerequisite: IS 501 or consent of instructor.

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Restricted to Graduate - Urbana-Champaign.
This is a required course for the MSIM degree. For MSLIS students IS 501, or concurrent enrollment in IS 501 and IS 561 is required.

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Restricted to students in the Information Sciences department.

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Restricted to Graduate - Urbana-Champaign.
This is a required course for the MSIM degree. For MSLIS students IS 501, or concurrent enrollment in IS 501 and IS 561 is required.

IS 567  **Academic Librarianship**  credit: 4 hours.

Introduces the higher education environment in which academic librarians and other information professionals operate in order to prepare students for leadership roles both within academic libraries and in their parent institutions. This course explores academic

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Restricted to students in the Information Sciences department.
librarianship through a variety of lenses including: history and organization of higher education; accreditation; characteristics of
students; roles of faculty and other campus professionals; and current issues and challenges. 4 graduate hours. No professional credit.

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Restricted to students in the Information Sciences department.

IS 568  Theological Librarianship  credit: 2 OR 4 hours.
Provides an overview of the contexts, materials, services, and issues characterizing theological librarianship. Students interact with
a number of librarians currently working in the field. 2 or 4 graduate hours. No professional credit.

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Restricted to students in the Information Sciences department.

IS 580  Rare Book and Special Collections Librarianship  credit: 2 hours.
Designed as a practical introduction to Rare Book and Special Collections Librarianship, to cover for the neophyte as well as the
experienced librarian the many issues of these departments’ responsibilities, including selection, acquisition, receiving, cataloging,
processing, shelving, circulation, inter-library loan, reference, preservation and conservation, security, exhibition, publication, and so
forth, including the uses of information technology. 2 graduate hours. No professional credit.

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Restricted to students in the Information Sciences department.

IS 581  Administration and Use of Archival Materials  credit: 4 hours.
Administration of archives and manuscript collections in various types of institutions. Theoretical principles and archival practices
of appraisal, acquisition, accessioning, arrangement, description, preservation, and reference services. Topics will include: records
management programs, collecting archives programs/special collections, legal and ethical issues, public programming and advocacy,
and the impact of new information technologies for preservation and access. Lectures, discussion, internet demonstration, and field
trips to the Special Collections Department and University Archives. 4 graduate hours. No professional credit.

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Restricted to students in the Information Sciences department.

IS 582  Preserving Info Resources  credit: 4 hours.
Covers the broad range of library preservation and conservation for book and nonbook materials relating these efforts to the total library
environment; emphasizes how the preservation of collections affects collection management and development, technical services,
access to materials and service to users. 4 graduate hours. No professional credit.
## IS 583  Grad Bioinformatics Seminar  credit: 1 TO 2 hours.
Same as CPSC 591 and INFO 591. See INFO 591.

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Restricted to students in the Information Sciences department.

## IS 586  Digital Preservation  credit: 4 hours.
Examines current problems with and approaches to digital preservation that are fundamental to the long-term accessibility of digital materials. Examines the range of current research problems, along with emerging methods and tools, and assesses a variety of organizational scenarios to plan and implement a preservation plan. Topics include basic information theory, preservation of complex digital objects; standards and specifications; sustainability and risk assessment; authenticity, integrity, quality control, and certification; and management of preservation activities. 4 graduate hours. No professional credit.

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<td>A</td>
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<td>46 - Grad Sch of Lib &amp; Info Science</td>
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Restricted to Graduate - Urbana-Champaign.

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<td>67622</td>
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<td>06:30 PM - 08:30 PM</td>
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<td>DeCandido, R</td>
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</tbody>
</table>

Restricted to students in the Information Sciences department.

## IS 587  History and Foundations of Library and Information Science  credit: 4 hours.
This required course for all first-semester library and information science (LIS) doctoral students introduces students to the historical foundations of LIS. Examinations of the interactions of socio-cultural, technological and professional factors underlying the emergence of LIS provide a basis for exploring more recent developments in theory and practice. 4 graduate hours. No professional credit. Prerequisite: LIS doctoral student in their first semester.

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<td>109 - Grad Sch of Lib &amp; Info Science</td>
<td>Mak, B Weech, T</td>
</tr>
</tbody>
</table>

Restricted to PHD:Library & Infor Sci -UIUC.

## IS 590  Advanced Problems in Information Sciences  credit: 1 TO 4 hours.
Variety of newly developed and special topics courses on different aspects of the information sciences intended to augment the existing curriculum, offered as sections of IS 590. Additional fees may apply. See Class Schedule. 1 to 4 graduate hours. No professional credit. May be repeated.

Class materials fee or field trip fee may be required.

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<td>T</td>
<td>341 - Grad Sch of Lib &amp; Info Science</td>
<td>Bonn, M</td>
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</tbody>
</table>

Credit Hours: 4 hours
Issues Scholarly Communication
Restricted to Graduate - Urbana-Champaign.
Description: A basic level of scholarly communication literacy and sophistication is an increasing requirement of academic librarians, both to inform their work and to make those librarians effective partners in the scholarly enterprise. This course is designed to cultivate and develop that literacy. It will address topics such as: the established modes of scholarly communication and the emergence of alternatives influenced by the growth of social media and other forms of networked communication; the divide between formal and informal modes of scholarly communication and the current state of flux as that divide begins to collapse; the varying economies of scholarship (the reputation and prestige economy, the financial economy both in the market and in the mission-driven research academy, and the economic impact of scholarly communication decisions upon library budgets); modes of credentialing scholarship and their impact upon professional advancement, with special attention to peer review and its (current?) discontents; scholarship as intellectual property and the most effective ways to manage that property and achieve scholarly goals; and issues in access and preservation as they relate to ensuring the future of the scholarly conversation.

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<th>CRN</th>
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<td>R</td>
<td>-</td>
<td>Gough, J</td>
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</table>

Credit Hours: 4 hours
Business Analytics
Restricted to students in the Information Sciences department.
A foundational course in practical data analytics for the beginner. Students will be introduced to current data analysis tools and techniques for the querying, transformation, summarization, visualization, and modeling of data. Concurrently, the course will explore the terminology and theory behind data analysis and delve into the soft skills required to become an analytics advocate in the workplace. Tools used will include R, MySQL, and Tableau. No prior experience is assumed.

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<td>-</td>
<td>Huot, A</td>
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</table>

Credit Hours: 2 hours
Bookbinding: Hist, Princ, Prac
Restricted to students in the Information Sciences department.
A hands-on exploration of multiple styles of bookbinding. Students will acquire fundamental technical knowledge by creating a variety of book structures using traditional tools and materials. An appreciation of the history of bindings will be gained through readings, visits to the Rare Book and Manuscript Library, the Conservation Lab and other field trips.

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<td>CA</td>
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<td>M</td>
<td>131 - Grad Sch of Lib &amp; Info Science</td>
<td>Voss, A</td>
</tr>
</tbody>
</table>

Credit Hours: 2 hours
Community Archives
Restricted to Graduate - Urbana-Champaign.
Prerequisites LIS 581, or consent of instructor. Community Archives are a collection of material that documents one or many aspects of a community's heritage, collected and preserved by that community and its members. These materials tell the story of groups of people who have often been excluded from mainstream archives, which have tended to focus on official documents and the lives of elites. We will investigate the role community archives play in supporting a sense of heritage and identity amongst members of a community and how they serve to raise awareness of these neglected stories in the wider public. Will work with local organizations that have agreed to take part, and students will contribute to the work of their archives by assisting in
identifying records of long term value, documenting the experience of its members, providing the organization with practical and affordable solutions within a framework of best practice of archives and records management, and working collaboratively with the organizations to secure the long-term viability of their documentary heritage.

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<th>Course Code</th>
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</table>

Credit Hours: 2 hours
Comics: Advising Readers
Restricted to students in the Information Sciences department.
[Expanded title: Comics: Advising Child and Adult Readers] Comics--in forms including comic strips, comic books, graphic novels, webcomics, and manga--represent an important cultural medium, which appeals to persons of all ages and is collected by many school, public, and academic libraries. This course introduces students to the comics medium, its history, and its cultural influences. Students will read a variety of comics and learn about materials and techniques key to providing reader's advisory in this medium. Although this course focuses on American comics, some readings and discussions will touch on this medium's international dimensions.

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<th>Course Code</th>
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<td>M</td>
<td>04:30 PM - 06:30 PM</td>
<td>4</td>
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</table>

Credit Hours: 4 hours
Digital Humanities
Restricted to students in the Information Sciences department.
Will look at some of the history of digital humanities, examine some case studies of digital tools and methods applied to humanities material in the context of research, and consider the implications of such projects for libraries, both in terms of providing support to their creators and in terms of collecting the results. This course considers fundamental concepts and common technologies to understand how they enable and constrain digital scholarship in the humanities, and to explore the abundant opportunities and challenges that digital projects pose for libraries. Through lectures, discussion, and hands-on use of digital tools and humanities data, students will gain familiarity with the shape and prominent features of the extensive landscape of digital humanities research, along with some of the basic skills required to navigate it.

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Credit Hours: 2 hours
Big Data Infrastructrs for R&D
Restricted to Graduate - Urbana-Champaign.

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<th>Course Code</th>
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<td>W</td>
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Credit Hours: 4 hours
Data Mining
Restricted to Graduate - Urbana-Champaign.
Data mining refers to the process of exploring large datasets with the goal of uncovering interesting patterns. This process usually involves a number of tasks such as data collection, pre-processing, and characterization; model fitting, selection, and evaluation; classification, clustering, and prediction. Although data mining has its roots in database management, it has grown into a discipline that focuses on algorithm design (to ensure computational feasibility) and statistical modeling (to separate the signal from the noise). It draws heavily upon a variety of other disciplines including statistics, machine learning, operations research, and information retrieval. Will cover the major data mining concepts, principles, and techniques that *every information scientist should know about.* Lectures will introduce and discuss the major approaches to data mining; computer lab sessions coupled with assignments will provide hands-on experience with these approaches; term projects offer the opportunity to use data mining in a novel way. Mathematical detail will be left to the students who are so inclined.

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<th>Course Code</th>
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<td>12:00 PM - 02:50 PM</td>
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Turk, M
Credit Hours: 4 hours
Data Visualization
Restricted to students in the Information Sciences department.
Data visualization is crucial to conveying information drawn from models, observations or investigations. This course will provide an overview of historical and modern techniques for visualizing data, drawing on quantitative, statistical, and network-focused datasets. Topics will include construction of communicative visualizations, the modern software ecosystem of visualization, and techniques for aggregation and interpretation of data through visualization. Particular attention will be paid to the Python ecosystem and multi-dimensional quantitative datasets.

67396
Lecture-Discussion
DW
01:00 PM - 03:50 PM
R
46 - Grad Sch of Lib & Info Science
Wonderlich, M

Credit Hours: 4 hours
Data Warehousing and BI
Restricted to Graduate - Urbana-Champaign.
This course examines the construction of a data warehouse and business intelligence system. It will review the roles and requirements of building the system, including data modelling and business intelligence product design. This course will explore real-world case studies of data warehouse and business intelligence projects leading to a final project to design a solution for a business case.

67399
Lecture-Discussion
ED1
04:30 PM - 05:50 PM
R
ARR - Krannert Art Museum
Wilson, W

Credit Hours: 2 hours
Exhibit Design & Installation
Restricted to Graduate - Urbana-Champaign.
This course meets the first 8 weeks of the semester. The opening night of any exhibition is the culmination of many months and sometimes years of planning centered around an initial core idea for a show. After that idea has gelled into a working concept, it is handed to Design and Installation Specialists to see what is really possible. Can we have all the art suspended from wires? Can the ceiling support a replica of a sea mine? Can we devise a secure vitrine for this priceless manuscript? Does this meet ADA restrictions? How will everything fit together? Can we get it to look? This course will address how exhibitions attain a specific "look"? This is not a course on developing or curating the information, but rather a course on presenting that information in the most compelling way. We will look at the planning, fabricating, painting, building, and installing are large parts of our work. We also have to consider that nothing, with few exceptions, is permanent. Our work needs to be secure and stable, but also reversible to make way for the next show. We will also survey the conceptual and procedural dimensions of carrying an exhibition through from curatorial musings to the reality of opening night. We will cover the techniques and processes that begin with a dialogue and move into the concrete. We will discuss the "what's possible" response to the initial idea. We will discuss the collaborative aspects of working with Curators, Directors of Cultural Institutions, Registrars, Collections Managers and Architects. The course will be a mix of discussion and hands-on experience with some courses taking place in the Krannert Art Museum workshop. Location: Room 17, Krannert Art Museum

67701
Lecture-Discussion
ED2
04:30 PM - 05:50 PM
R
ARR - Krannert Art Museum
Wilson, W

Credit Hours: 2 hours
Exhibit Design & Installation
Restricted to Graduate - Urbana-Champaign.
This course meets the last 8 weeks of the semester. The opening night of any exhibition is the culmination of many months and sometimes years of planning centered around an initial core idea for a show. After that idea has gelled into a working concept, it is handed to Design and Installation Specialists to see what is really possible. Can we have all the art suspended from wires? Can the ceiling support a replica of a sea mine? Can we devise a secure vitrine for this priceless manuscript? Does this meet ADA restrictions? How will everything fit together? Can we get that look? This course will address how exhibitions attain a specific "look"? This is not a course on developing or curating the information, but rather a course on presenting that information in the most compelling way. We will look at the planning, fabricating, painting, building, and installing are large parts of our work. We also have to consider that nothing, with few exceptions, is permanent. Our work needs to be secure and stable, but also reversible to make way for the next show. We will also survey the conceptual and procedural dimensions of carrying an exhibition through from curatorial musings to the reality of opening night. We will cover the techniques and processes that begin with a dialogue and move into the concrete. We will discuss the "what's possible" response to the initial idea. We will discuss the collaborative aspects of
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E-Learning
Restricted to students in the Information Sciences department.
2 or 4 credits: Provides an introduction to a wide variety of online learning methods, including videos, multimedia tutorials, webinars, and online courses (including synchronous, asynchronous, and hybrid models) with a focus on their use in libraries and information centers. The course will prepare students to develop patron-oriented e-learning resources and to lead online courses following best practices.

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<td>M</td>
<td>131 - Grad Sch of Lib &amp; Info Science</td>
<td>Kendall, L</td>
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Credit Hours: 4 hours
Information Ethics
Restricted to Graduate - Urbana-Champaign.
This course will introduce students to major ethical theories and their application to the design, management, and use of information and information technologies. Some of the topics and issues considered include: professional ethics, intellectual property, privacy, data mining, and information access.

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Genealogy and Library Service
Restricted to students in the Information Sciences department.
2 or 4 credits: Prerequisite: IS 504 or consent of instructor: This is a hybrid course that meets with IS 590 GEO. Provides a basic knowledge of U.S. genealogical and family history research, and explores ways in which librarians can best serve researchers in this field. This course will familiarize you with how to gather the major sources used in family history research, as well as how to properly analyze, organize, and document them. A variety of sources, both print and digital, will be covered including vital, census, church, military and land records. In addition to readings and lectures, students will complete a series of assignments in order to acquire research skills. Note: Students enrolled for 4 hours of credit will be required to complete a compiled genealogy and some personal monetary expenses should be expected of students completing this project (e.g., expenses incurred for ordering records, etc.). Acquiring the necessary documents could cost approximately $100.00 to $200.00, but this amount will vary depending on where the documents are located, and if any are available in online databases.

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<td>12A - Grad Sch of Lib &amp; Info Science</td>
<td>Brooks, I</td>
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</tbody>
</table>
Global Health Informatics
Restricted to Graduate - Urbana-Champaign.
The course will examine the current state of global health informatics from both a local and global perspective, including opportunities and challenges. Focus will be placed on the transition from paper-based records to electronic systems, with a particular emphasis on large international open-source initiatives and use of mobile devices. Guest speakers will share their experiences with WHO, international education based on mobile devices, and regulatory issues. Meets with IS 490 GHU

Credit Hours: 4 hours
Local, Regional, Global IS
Restricted to students in the Information Sciences department.
[Expanded title: Local, Regional and Global Intersections in Library and Information Science]. Required course for joint African Studies/LIS Master's degree. This course explores traditions and trends in library and information science (LIS) from a global perspective incorporating local and regional intersections. Participants consider diverse information contexts emphasizing IS subfields including archives, community informatics, data curation, information policy, IS education, and youth services.

Credit Hours: 4 hours
Expl Info Know Mgmt Strategies
Restricted to Graduate - Urbana-Champaign.
This course covers information and knowledge in the workplace, building effective knowledge management strategies, and examining technologies for knowledge management, specifically Microsoft SharePoint. Some topics covered will include knowledge management objectives, business process analysis and improvement, information governance and standards, and strategic planning. The course prepares students on how to build a successful knowledge process for an organization. Emphasis will be on case studies, projects, and hands-on learning.

Credit Hours: 2 hours
Information Service Marketing
Restricted to students in the Information Sciences department.
Examines all aspects of non-profit marketing, including the basic principles of marketing, and their application to a wide variety of settings, particularly non-profits, and applying the principles in an evaluation of an information service provider, carrying out basic market research for this provider, and writing a basic marketing plan. The goals of this course are: to provide a theoretical foundation that can be applied to many different organizational settings, particularly non-profits; to apply these theoretical concepts to a real-world situation comparable to the settings in which you will be employed; to develop team and leadership organization, communication and planning skills.

Credit Hours: 4 hours
Methods for Data Science
Restricted to Graduate - Urbana-Champaign.
Prerequisites are LIS542 or equivalent (e.g. intro probability/stats STAT 100, CS361, or ECON 202) and LIS490IDS/CS398IDS/STAT430IDS or CS101 or equivalent; or consent of the instructor. Linear Algebra recommended at the level of MATH 125 or higher; Calculus recommended at the level of MATH 220. A dramatic increase in computing power has enabled new areas of data science to develop in statistical modeling and analysis. These areas cover predictive and descriptive learning bridge ideas and theory in statistics, computer science and artificial intelligence. We will cover many of these new methods including predictive learning such as estimating models from data to predict future outcomes, notably regression and classification models. Regression topics include linear regression with recent advances to deal with large numbers of variables, smoothing techniques, additive models, and local regression. Classification topics include discriminant analysis, logistic regression, support vector machines, generalized additive models, naive Bayes, mixture models and nearest neighbor methods. Lastly we develop neural networks and deep learning.
techniques, bridging the theory introduced in the earlier parts of the class to purely empirical methods. We situate these methods in the "data science lifecycle" as part of the larger set of practices in the discovery and communication of scientific findings.

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<td>109 - Grad Sch of Lib &amp; Info Science</td>
<td>LaBarre, K</td>
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</table>

Credit Hours: 4 hours

**Oral History**

Restricted to Graduate - Urbana-Champaign.

Introduces the theory and practice of oral history to graduate students in history, communication, library and information science and related fields through reading, discussion and practice with field work and interviewing. Over the last fifty years, oral history has moved from a controversial (and sometimes despised) technique on the margins of the discipline history, to one of the most important forms of historical knowledge production and dissemination in the academic and non-academic worlds. Yet its goals and relations to the communities it touches are often less than clear. Examines oral historical works, some canonical, some experimental, produced by historians, anthropologists, folklorists, sociologists and political activists. Up for discussion are questions of orality and literacy, privileged versus marginal histories, the problem of memory, problems of listening and learning how to ask, and debates about audience and presentation. Readings will cross continents (the Americas, Europe, Africa, South America) and historical periods from the 18th through the 21st centuries.

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<th>Course Code</th>
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<th>Time</th>
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<th>Location</th>
<th>Instructor</th>
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<tr>
<td>67854</td>
<td>Online PBO</td>
<td>06:00 PM - 08:00 PM</td>
<td>T</td>
<td></td>
<td>Vincler, J</td>
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</table>

Print Culture & Material Book

Restricted to students in the Information Sciences department. [Expanded Title: Print Culture and the Material Book in the Age of Print] The course may be taken as 2 or 4 credits. 2 credit students need only attend the first 8 weeks. 4 credit students will write a research paper and lead a seminar session. This course will explore the approximate 500 year history of the printed book in the West from Gutenberg to our digital contemporary with the aim of better understanding the shifting power and purpose of the printing press historically. We will read the work of book historians and bibliographers, examine the role of the printed book in specific epochs such as the Reformation and Scientific Revolution, and examine how print has been used for censorship and propaganda, as well as for the production of knowledge. Particular attention will be paid to the types of material books found in research libraries and university special collections.

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<td>Ferris, Q</td>
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Presv & Conv Spec Colls Care

Restricted to Graduate - Urbana-Champaign. [Expanded Title: Preservation and Conservation for Special Collections Care] This course is meant to build on previous coursework in Preservation, Special Collections and/or Rare Book Curation, will focus on the physical structure and chemical composition of book, paper, and photographic materials. Students will learn how historic and modern library and archives materials are produced, how they age and potentially deteriorate, and different approaches for their physical care. Class work will be split between traditional lectures and readings as well as hands-on projects in book construction and minimally invasive treatments and stabilization mechanisms. The goal will be to educate students to a level at which they can effectively communicate with conservation and preservation professionals, as well as set educated priorities and expectations for the care of their collections. An additional course materials fee will be assessed to the student's tuition & fees bill. This course meets at the Conservation Lab located at 809 S. Oak St., Champaign.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Type</th>
<th>Time</th>
<th>Day</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>67403</td>
<td>Lecture-Discussion PR</td>
<td>09:00 AM - 11:50 AM</td>
<td>R</td>
<td>46 - Grad Sch of Lib &amp; Info Science</td>
<td>Weible, J</td>
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</tbody>
</table>

Credit Hours: 4 hours

Progr Analytics & Data Process

Restricted to Graduate - Urbana-Champaign. [Programming for Analytics and Data Processing] All other students need department approval. Email ischool-advising@illinois.edu. Building on the fundamentals introduced in LIS 452, this course adds skills, data structures, tools, and patterns needed for developing and modifying software to solve more complex problems and to improve code maintainability and reliability. These skills are relevant to many types of programming, but many scenarios used will involve data analysis, conversion, validation, and processing pipelines. The course helps prepare students for work on larger projects with multiple developers. Includes test-driven
design, more OOP design concepts, refactoring, profiling, introductory parallel processing, and more. Primarily uses the Python language. Prerequisite: LIS452; or equivalent programming knowledge, with consent of instructor.

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<tr>
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<td>Weible, J</td>
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</table>

Credit Hours: 4 hours  
Progr Analytics & Data Process  
Restricted to Graduate - Urbana-Champaign.  
[Programming for Analytics and Data Processing] All other students need department approval. Email ischool-advising@illinois.edu. Building on the fundamentals introduced in LIS 452, this course adds skills, data structures, tools, and patterns needed for developing and modifying software to solve more complex problems and to improve code maintainability and reliability. These skills are relevant to many types of programming, but many scenarios used will involve data analysis, conversion, validation, and processing pipelines. The course helps prepare students for work on larger projects with multiple developers. Includes test-driven design, more OOP design concepts, refactoring, profiling, introductory parallel processing, and more. Primarily uses the Python language. Prerequisite: LIS452; or equivalent programming knowledge, with consent of instructor.

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<td>67431</td>
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<td>M</td>
<td>109 - Grad Sch of Lib &amp; Info Science</td>
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</table>

Credit Hours: 4 hours  
Qualitative Methods Research  
Restricted to Graduate - Urbana-Champaign.  
Survey of strategies of qualitative inquiry, considering methods of collecting, analyzing, interpreting, and reporting data.

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<th>Instructor</th>
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<tbody>
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<td>67524</td>
<td>Online</td>
<td>SPO 01:30 PM - 03:30 PM</td>
<td>W</td>
<td>-</td>
<td>Berger, S</td>
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</tbody>
</table>

Credit Hours: 2 hours  
Coll Dev for Spec Coll  
Restricted to students in the Information Sciences department.  
[Expanded Title: Collection Development for Special Collections] Focuses on the issues and practices related to collection development for special collections libraries. The selection and acquisition of printed, manuscript, and digital materials for special collections libraries is a large subject, but it is a subject that is treated only sparsely in the professional literature. Students will gain an understanding of the nature and makeup of a collection in a rare books and manuscripts library, as well as an overview of the practices and procedures used by acquisitions librarians and development officers involved in the purchase or solicitation of materials for the collection. Attention will also be paid to the legal and ethical considerations that arise in making collection decisions in a special collections library.

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<td>TX 01:00 PM - 03:50 PM</td>
<td>F</td>
<td>131 - Grad Sch of Lib &amp; Info Science</td>
<td>Blake, C</td>
</tr>
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</table>

Credit Hours: 4 hours  
Text Mining  
Restricted to Graduate - Urbana-Champaign.  
This course introduces students to the knowledge discovery process and methods used to mine patterns from a collection of text. We will critically review text mining methods developed in the knowledge discovery and databases, information science, and computational linguistics communities. Students will develop proficiency with modeling text through individual projects.

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<td>68194</td>
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<td>X5 ARRANGED -</td>
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</table>

Credit Hours: 3 hours  
Encoded Archival Description  
Departmental Approval Required  
This class will cover Encoded Archival Description (EAD), version EAD3, and provide a brief overview of Encoded Archival Context (EAC), the international standards for the presentation of archival descriptive information on the World Wide Web. A primer on additional developments in the managing and publishing of archives information is also included. A WISE course; requires consent
of Graduate Studies Advisor to enroll (klucht@illinois.edu). Meets asynchronously through San Jose State University, INFO 284, Jan 24 - May 14, 2018.

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</table>

Credit Hours: 1 hours  
Indigenous Librarianship  
Departmental Approval Required  
The course introduces students to some of the main concepts and unique challenges in Indigenous librarianship, including: knowledge organization; intellectual property rights and cultural appropriation; representation and evaluation of information sources about Indigenous peoples; and current initiatives in the digitization and revitalization of Indigenous culture and language. At the end of the course, students will be better positioned to undertake learning opportunities within Indigenous-oriented libraries, archives, cultural centers and organizations. A WISE course; requires consent of Graduate Studies Advisor to enroll (klucht@illinois.edu). Meets asynchronously through San Jose State University, INFO 284, Jan 24 - May 14, 2018.

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</table>

Credit Hours: 3 hours  
Index & Abstract Sys & Srv  
Departmental Approval Required  
Skills of abstracting and indexing, with analysis of existing secondary services and varieties of index forms. Both manual and computer-based models. A WISE course; requires consent of Graduate Studies Advisor to enroll (klucht@illinois.edu). Meets asynchronously through Syracuse University, IST 638, Jan 16 - May 2, 2018.

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</table>

Credit Hours: 3 hours  
Digital Asset Management  
Departmental Approval Required  
This course is designed to introduce students to the fundamental concepts, terminology, practice and application of digital asset management in the public and private sector. It will feature discussions on metadata, workflow, taxonomy, data security, and preservation of digital assets. A WISE course; requires consent of Graduate Studies Advisor to enroll (klucht@illinois.edu). Meets asynchronously through San Jose State University, INFO 282, Jan 24 - May 14, 2018.

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Credit Hours: 1 hours  
Sem Lib Mngmnt: Polit Advcy  
Departmental Approval Required  
This one unit, four week, course provides an overview of best practices in political advocacy for librarians. Having knowledge of the function of local politics important because 95% of funding for libraries comes from the will of the local voters or the will of the local politicians. Understanding the political ecosystem through which libraries are funded is crucial to continued support for libraries in the United States. Throughout the course we will explore strategies used by some of the best community organizers, political action committees, and politicians and adapt these strategies to librarianship. We will explore the resources that libraries need to develop in order to have the political and community support that they need in order to be able continue to serve the public. There will be a strong emphasis on building data driven advocacy campaigns that return real and measureable results to libraries. We will analyze methods for advocacy strategizing, message creation and delivery, goal setting, fundraising and budgeting, email, social media, outreach, understanding and handling opposition, building and understanding data-sets, managing volunteers, and organizing events. At the end of the course, students should be able to create a comprehensive and actionable advocacy plan for a library or library system. A WISE course; requires consent of Graduate Studies Advisor to enroll (klucht@illinois.edu). Meets asynchronously through San Jose State University, INFO 282, Jan 24 - Feb 27, 2018.

**IS 591 Practicum** credit: 2 hours.  
Supervised field experience of professional-level duties in an approved library or information center. 2 graduate hours. No professional credit. Approved for S/U grading only. A maximum of 2 hours may be applied toward a degree program. Prerequisite: Completion of 14 graduate hours of information sciences courses; submission of Practicum forms.
IS 592  **Independent Study**  credit: 2 TO 4 hours.
Permits the intermediate or advanced student opportunity to undertake the study of a topic not otherwise offered in the curriculum or to pursue a topic beyond or in greater depth than is possible within the context of a regular course. 2 to 4 graduate hours. No professional credit. May be repeated by M.S. students to a maximum of 4 graduate hours; CAS students, a maximum of 8 graduate hours; Ph.D. students, a maximum of 16 graduate hours. Prerequisite: Submission of "Request to Enroll in IS 592" form.

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</table>

Instructor Approval Required

IS 593  **CAS Project**  credit: 0 TO 8 hours.
Individual study of a problem in library and information science; forms the culmination of the Certificate of Advanced Study program. 0 to 8 graduate hours. No professional credit. Approved for S/U grading only. May be repeated. Only eight hours will apply to the Certificate of Advanced Study. Prerequisite: Admission to Certificate of Advanced Study program in library and information science; submission of "Request to Enroll in IS 593 - CAS Project" form.

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Instructor Approval Required

IS 599  **Thesis Research**  credit: 0 TO 16 hours.
Individual study and research. 0 to 16 graduate hours. No professional credit. Approved for S/U grading only. May be repeated. M.S. candidates, 0 to 8 hours. Doctoral candidates, 0 to 16 hours. Prerequisite: MS students must submit a "Request to Enroll in IS 599 - Master's Thesis" form.

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Instructor Approval Required