Information Sciences

School of Information Sciences
Interim Associate Dean for Academic Affairs: Emily Knox
School Office: 112A Library and Information Science Building, 501 East Daniel Street, Champaign
Phone: 217-333-3280
www.ischool.illinois.edu

IS 101  Introduction to Information Sciences  credit: 3 hours.
This course provides an introduction to the field of information science and the major. It offers both historical and contemporary context for understanding the role of information in society. Focus is placed upon critical analysis of information problems as well as understanding the creation, use, and distribution of information in business, policy, education, government, health, and other sectors.

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Meets 18-May-20 - 12-Jun-20.
Restricted to Undergrad - Urbana-Champaign.
Online course meeting synchronously (during set days/times listed on schedule), with remaining work completed online asynchronously.

IS 204  Research Design for Information Sciences  credit: 3 hours.
This course provides an introduction to different approaches to research in the information sciences, including social science methods, data and text mining, digital humanities, historical approaches, and others. Topics include methods for evaluating research, developing research questions, selecting research methods, conducting research ethically, and communicating findings clearly and effectively through words, graphics, and other visualizations.

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Meets 18-May-20 - 12-Jun-20.
Restricted to Undergrad - Urbana-Champaign.

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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Credit Hours: 3 hours
Race Gender and Info Tech
Not intended for students with Freshman class standing. Restricted to Undergrad - Urbana-Champaign.
Online course meeting synchronously (during set days/times listed on schedule), with remaining work completed online asynchronously. In this course we will critically examine the ways in which information and communication technologies (ICTs) are
shaped by -- and help to shape -- social relations of race and gender; and we will extend our review to other categories of identity and exclusion as well, such as age, ability, geography and ethnicity. We will also explore the various benefits and burdens of the “information society” and how these are socially distributed, and conduct case-studies of policies, practices, and programs designed to enhance opportunities and/or mitigate disadvantages through the creative or disruptive use of ICTs. Questions may be sent to ischool-is@illinois.edu

**IS 403  Literature and Resources for Children**  credit: 2 TO 4 hours.
Evaluation, selection and use of books and other resources for children (ages 0-14) 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 various uses (personal and curricular) and according to children's 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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Credit Hours: 2 hours
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

**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.
Restricted to Graduate - Urbana-Champaign.

**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.

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Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
Graduate student questions may be sent to ischool-advising@illinois.edu
**IS 455**  **Database Design and Prototyping**  credit: 4 hours.

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. 4 undergraduate hours. 4 graduate hours. Prerequisite: Junior Standing required.

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Not intended for students with Freshman or Sophomore class standing. Restricted to Undergrad - Urbana-Champaign.
Restricted to Undergraduates with Junior standing or above. Undergraduate questions may be sent to ischool-is@illinois.edu

**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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**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 Library & Information Science major(s). Restricted to Graduate - Urbana-Champaign.

**IS 504  Reference and Information Services  credit: 4 hours.**

Explores reference and information services in a variety of settings, introduces widely used print and online sources, and develops question negotiation skills and search strategies. 4 graduate hours. No professional credit.

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Credit Hours: 4 hours

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Credit Hours: 4 hours

Restricted to students in the Information Sciences department.
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**IS 505  Administration & Management of Libraries and Information Centers  credit: 4 hours.**

Designed to explore the principles that govern how organizations and institutions work, this course provides a foundation for and introduction to the theories, practices and procedures involved in the management and administration of libraries and information centers. 4 graduate hours. No professional credit.

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Restricted to students in the Information Sciences department.
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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Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
Prerequisite: IS 501 or concurrent enrollment in IS 501 and IS 507.

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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IS 510  Adult Public Services  credit: 4 hours.
The literature, history, and problems of providing library service to the general adult user; investigation of user characteristics and needs, and the effectiveness of various types of adult services. 4 graduate hours. No professional credit.

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Credit Hours: 4 hours
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

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.
CRN | Type | Section | Time | Days | Location | Instructor
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39563 | Online | AO | 05:00 PM - 07:00 PM | W | - | Lucht, K

Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

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.

CRN | Type | Section | Time | Days | Location | Instructor
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39646 | Online | AO | 06:00 PM - 08:00 PM | R | - | Song, Y

Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

IS 578 **Technical Services Functions**  credit: 4 hours.
Seminar on the principles, problems, trends, and issues of acquiring, identifying, recording, and conserving/preserving materials in all types of libraries and information centers; includes the special problems of serials management; emphasizes service aspects. 4 graduate hours. No professional credit.

CRN | Type | Section | Time | Days | Location | Instructor
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39572 | Online | AO | 05:00 PM - 07:00 PM | M | - | Oberg, S

Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

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.

CRN | Type | Section | Time | Days | Location | Instructor
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39633 | Online | AO | 04:30 PM - 06:30 PM | T | - | Vincler, J

Credit Hours: 2 hours
Restricted to students in the Information Sciences department.
IS 584  **Archival Arrangement and Description**  credit: 2 hours.

Provides seminar discussions and a hands-on processing experience that applies current theories and practices utilized to solve the most common problems that are encountered by today's archivists and curators when arranging and describing historical records, archives, manuscripts, and artifacts. Issues of intellectual and physical arrangement, description, and access are addressed. 2 graduate hours. No professional credit.

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Credit Hours: 2 hours
Restricted to students in the Information Sciences department.
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Prerequisite: IS 581

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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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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Credit Hours: 4 hours
AV Materials Libs & Archives
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
This course focuses on time-based media materials in libraries and archives. Students will learn about the preservation and digitization of different media types – motion picture film, video, and recorded sound – as well as issues related to collection development, copyright/ownership, and the cataloging/description and arrangement of time-based multimedia objects.
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Credit Hours: 2 hours
Cataloging for School Libs
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
### This course will introduce the student to the principles, practices and standards for information representation and organization in school media centers. Course content will include an introduction to original cataloging of non-standard materials (such as realia and audiovisual materials), evaluation of bibliographic records, exposure to authority control and subject access systems with a special focus on the Dewey Decimal System and Sears Subject Headings. The course will also provide an overview and exploration of different library systems/OPACS.

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Credit Hours: 2 hours
Copyright for Information Prof
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
Copyright is a complicated legal concept that affects all information institutions, including corporations, libraries, archives, and museums whether they are online or off. This course will explore copyright from both a legal and information management perspective to demystify the concept and provide practical tools for working with copyrighted material. Topics discussed include the Constitutional underpinnings of copyright, copyright basics, copyright exceptions, fair use, the open access movement, licensing, data and copyright, and educational issues relating to copyright including issues related to K-12 teaching. This course is designed for students with a variety of backgrounds and interests.

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<td>39631</td>
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EdTech and Youth
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
MUST CHOOSE 2 or 4 credit hours, for questions concerning the 2 or 4 credit hours, please email Ruth Shasteen at rshaste2@illinois.edu. ### This course is intended to equip educators, technology coaches, youth services professionals, and library information specialists with the knowledge and skills necessary to effectively integrate technology into authentic learning experiences for youth. Rooted in evidence-based research, students will actively explore how educational technologies might be used and adapted in purposeful ways to support and/or transform the learning process.

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<th>Course Code</th>
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Credit Hours: 2 hours
Grant Writing for Libraries
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
An introduction to the craft of writing and submitting successful grant applications. Grant writing is critical for multi-type libraries, nonprofit information entities, and other service-based organizations. Through a combination of individual and group assignments, and peer and instructor review, students will learn how to identify grant sources and strategically target their writing to those sources.

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<td>40266</td>
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<td>M</td>
<td>Alvarez, B</td>
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</table>

Credit Hours: 2 hours
Information Service Marketing
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

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
Practices of Knowledge Mgmt
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

This course provides students with practical experience in Knowledge Management (KM) in three categories: knowledge services, knowledge content management, and knowledge consulting. Built upon the KM methods widely used by consulting firms, this course helps students develop professional deliverables or portfolios applicable to the academic, corporate, and public sectors. This course helps students become knowledge or information professionals (e.g. researchers, consultants, and librarians) by engaging them with KM projects in academic and corporate settings.

Credit Hours: 4 hours
Progr Analytics & Data Process
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

All other students need department approval. Email ischool-advising@illinois.edu. Prerequisite: LIS/IS452; or equivalent programming knowledge, with consent of instructor. HYBRID course that meets with IS 590 PR.

### Building on the fundamentals introduced in LIS/IS452, 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.

Credit Hours: 2 hours
Reviewing Children's Lit
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

### Introduction to the process of reviewing children's literature. A writing course designed to improve students' ability to produce concise, clearly structured reviews of children's and young adult literature. Also includes an overview of genres and formats of the literature and an examination of the cultural context and implications of reviewing.

Libr&Info Spanish Spking Ptnrs
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

MUST CHOOSE 2 or 4 Credit Hours. Most librarians will at some point in their careers have the opportunity to work with patrons who are seeking resources in Spanish. According to the US Census, 38.8 million Hispanics in the US speak Spanish at home, giving the US the 4th highest number of Spanish-speakers worldwide (Mexico has 122 million, Colombia 47 million, & Argentina 43 million). This steady increase in population means that the number of Spanish-speakers using public & academic libraries is also on the rise but this does not mean that all Spanish-speakers have the same information needs. In this 8-week course, students will
explore differences in the Spanish-speaking populations in the United States and examine information resources for meeting these populations' needs. Assignments will include researching communities, creating user guides for a specific setting and information need, and selecting Spanish-language materials to build a collection supporting a hypothetical user population.

Credit Hours: 4 hours
Web Content Strategy & Mgmt
Restricted to students in the Information Sciences department.
Restrict to Graduate - Urbana-Champaign.
### This course focuses on the basics of web site design, content development, constructing web pages with standard HTML and CSS. We will also cover usability and accessibility, content management system options, multi-media and interactivity in the context of standard HTML and CSS, procedures and policies for organizations, with a concentration on public, academic and special libraries. Students will investigate, design, and draft a representative site. Students may work with non-profit and library clients in constructing and redesigning their web sites or design and construct their own personal professional pages. Laptop Required.

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 12 graduate hours of information sciences courses; submission of Practicum forms.

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Departmental Approval Required

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 MS students to a maximum of 4 graduate hours. May be repeated by CAS students to a maximum of 8 graduate hours. May be repeated by PhD students to a maximum of 16 graduate hours. Prerequisite: Submission of "Request to Enroll in IS 592" form.

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Departmental 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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Meets 18-May-20 - 06-Aug-20. Departmental Approval Required

**IS 594  Information Sciences Practice**  credit: 0 hours.

Full-time or part-time practice of any information sciences in an off-campus information science environment. 0 graduate hours. No professional credit. Approved for S/U grading only. May be repeated. Prerequisite: IS students only.

Contact ischool-advising@illinois.edu for further information.

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Departmental 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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