**Information Sciences**

**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: 2 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: 4 hours
Business Analytics
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
No prior experience is assumed. ### 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.

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Credit Hours: 2 hours
Bookbinding: Hist, Princ, Prac
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
### 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, research, and lectures.

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Credit Hours: 2 hours
The Book as Physical Object
Restricted to Graduate - Urbana-Champaign.

CLASS MEETS in the Main Library, Rare Book Room 346 located at 1408 W. Gregory Drive in Urbana, Illinois. ### Examines all the PHYSICAL aspects of books and how these inform us of the books' manufacture and place in a scholarly world. Covers all aspects of book production, from the earliest books to computers, and concentrates on their physical aspects. The course will look at all kinds of manifestations and features of codices that will useful in cataloging and bibliographical description, in reading scholarly bibliographies, in deciphering booksellers' catalogs, and in describing copy-specific information for finding aids.

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### 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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MUST CHOOSE 2 or 4 Credit Hours. ### 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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MUST CHOOSE 2 or 4 Credit Hours. ### In order to be a leader in digital citizenship education, educators, technology leaders, and information specialists will need to understand the historical context and present state of digital citizenship education through the lenses of legal obligation, various local and national sets of standards, traditional frameworks of citizenship education, and research on youth and technology. Upon completion of this course, participants will be more prepared to lead digital citizenship conversations, curricular initiatives, and make informed decisions regarding the education of students in a digital age.

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MUST CHOOSE 2 or 4 credit hours, for questions concerning the 2 or 4 credit hours, please email Ann Ohms at annonhs2@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.
Credit Hours: 4 hours
Project Management
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.
### Leaders who can effectively manage projects are needed in libraries, archives, museums, businesses and universities. This is a comprehensive course in project management for anyone who is serious about planning and managing successful projects. The course combines knowledge, tools and techniques that are common to managing successful projects in any field with insight into the special opportunities and challenges of managing projects in information-related fields. Traditional approaches to project management and more contemporary agile approaches to project management are both covered in depth.

Credit Hours: 4 hours
Progr Analytics & Data Process
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 PRO. ### 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.
### Social Justice in Youth Lit
Restricted to students in the Information Sciences department.
Restricted to Graduate - Urbana-Champaign.

This course examines books, media, and other resources for young people (ages 0-18) in a multicultural, globalized, and increasingly digital media-saturated world. Explores the history of multicultural writing for youth, and major issues and debates of youth literature concerning diversity, racism, power, ideology, etc. Guides students to better select, interpret, evaluate, and promote such literature, media, and resources according to young people’s various needs (intellectual, emotional, social and physical).

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### Web Design Construct Organiz
Restricted to students in the Information Sciences department.
Restricted 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.

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### Photographic Preservation
Departmental Approval Required
Asynchronous, June 4th - Aug 12th, INFO 284, San Jose State University; Instructor: Gawain Weaver. “Preservation of Photographs” offers a broad introduction to the history, technology, identification, and care of photographic materials from 1839 to the present day. Photographic and photomechanical processes will be examined and discussed in detail. A sample set of 18 historic photographs and a handheld microscope give the student experience in identification of photographic processes. Topics on the care and preservation of photographs include understanding photographic deterioration, selection of appropriate enclosures, environmental monitoring, the effects of temperature and relative humidity on collections, the importance of cold storage for certain photographic materials, and digitization issues for photographic images within a preservation environment.